NIAGARA COLLEGE

The place to be for Applied Arts, Business, Health Sciences and Technology

1985

Niagara College of Applied Arts and Technology *Box 1005 Welland, Ont. L3B 5S2*

JACQUELINE ROBARTS

Niagara meets future demands

In the next few months, you are going to make career decisions which will affect the rest of your life. You will make your first occupational choice and you will choose where you wish to be trained in that initial career. I ask that you and your parents seriously consider opportunities available at and the benefits of attending your local community College — Niagara College. Being able to attend College close to home has many pluses that you should explore.

You have heard a great deal, I suspect, about the lack of opportunities for young people today. Let me assure you that there is not going to be a shortage of employment in the service and health care sectors. Programs in the School of Applied Arts and Health Sciences will provide the education and training to meet these future demands. While there may be a shift of emphasis in some job opportunities within the business and technology sectors, programs within our Schools of Applied Science and Technology and Business will help you to gain employment in many traditional and new jobs, most of which have been influenced by the advent of the computer and information age.

Niagara College offers you a wide variety of programs as presented in this publication. Read about them and you will find they provide extensive opportunities for on-the-job work and co-operative education experience prior to graduation which will provide you with increased opportunities for employment. Our job placement record for 1985 was in excess of 80 per cent. You should also read about the student services that the College will provide when you become a student.

We are as close as your telephone. Call us, come in to see and take the opportunity to talk to our staff about the programs that are of interest to you. We are here to help you reach your career goals.

Jacqueline P. Robarts,
President.

Fun and studies go hand in hand

NIAGARA COLLEGE · SINCE 1967 · REGION OF NIAGARA · OF APPLIED ARTS AND TECHNOLOGY

Your career begins at Niagara

SAC president

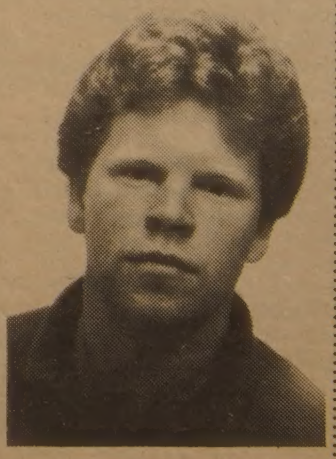
NC 'warm, friendly'

Dear Future Students:

Niagara College is a very warm and friendly place.

It is one of my responsibilities that your enrollment at Niagara College will be most memorable and enjoyable. Activities such as educational speakers, movies, participation in clubs, and pub nights are just a few of the ways that SAC tries to enrich the student life at Niagara.

Student participation is the key to a successful and enjoyable academic year.



John Turner, President
Student Administrative Council
Niagara College

Applied Arts

Law and Security students gain experience with the NRP force

Law & Security

Seeks 'motivated' students

The police, agencies of municipalities, provinces, and the federal government seek well qualified and motivated applicants who are suited for a variety of law enforcement duties. As well, Canada Customs, Immigration Canada and a host of private security agencies equally seek such well qualified and motivated individuals. The Law and Security Administration Program is primarily designed to prepare students for these and similar careers.

The Program begins with a course which is a survey of the many agencies in the enforcement of law, accompanied by two courses which offer both a history of law in general and the history of criminal law in Canada.

Once this introductory phase is completed the students study the many and varied offences which have been made unlawful through statutes or law books and the rules governing what evidence may be submitted to a court of law.

SPECIAL AREAS

As students begin second year they select a specialty area of police-related courses, security-related courses, or the Customs or Immigration fields and study specially prepared courses dealing with these topics. Through a special arrangement with the Niagara Regional Police Force, those students in the police speciality field may be allowed into the Auxiliary Cadet program which will allow them to attend with the police department during the term and observe day-to-day police operations and learn that the theories studied in class have many and varied practical applications.

In summary, during the two years of college attendance, students study those general subjects which will assist them to become better educated and prepared to continue in the adult world.

They study those specialist subjects which will allow them to better understand the Criminal Justice System which they have indicated an interest in entering and through their specialist courses have gained information in that chosen field.

They are now ready to enter their career field and to immediately make a significant and valuable contribution.

Fine Arts a career

You have probably heard the question, "What can you do with arts?" You may believe that there is no money in art, and you probably believe that the artist, being of little importance, only paints or draws pictures. Nothing could be further from the truth.

The Graphic Arts Review recently published an article which shows that the art industry is the second largest industry in the world next to defence spending. There is virtually nothing made in our society that the artist has not been involved with in one way or another. The technology of art is awesome; from computers to lasers, it needs creative minds to feed it.

This article is intended to inform you of the many careers that exist and the role that Niagara College can play in helping you make a decision about a career in art.

Fine Arts is concerned with the art training of art teachers, art historians, curators, painters, sculptors, print-makers and etching engravers.

At Niagara College the Fine Art Option provides a sound basic one-year program, in four areas: basic oil painting, life drawing and anatomy, silk screen reproduction and design layout, hand-lettering and basic process photography. Through sound instruction, students gain experience, skill satisfaction and discipline. A portfolio of work is a pre-requisite for entrance to advanced training in both industrial and educational settings.

The Art Option, over the past five years, has prepared many students for an art career. There are at present 32 former Niagara College students studying at the Ontario College of Art and more will enter the first year at the Art College in the future.

Over the years our graduates have been accepted for further training at universities and colleges throughout this province. The Ontario College of Art offers only 300 first year places and has approximately 2,800 applications for those seats.

Social Services helps handle today's problems

Drug abuse, alcoholism, suicide, unemployment, juvenile delinquency, broken homes and child abuse seem to be the signs of the times.

Niagara College's two-year social service worker program trains students to deal with these and virtually all aspects of social work.

With the only college in the Province to offer the diploma program through part-time study and with more than 300 applicants this year, the program is definitely booming.

A government stipulation,set by the Ministry of Colleges and Universities, limits the number of admissions to the program per year, requiring an extensive screening process. Applicants are expected to demonstrate personal awareness, maturity, patience and compassion. The Ministry sets the number the program can admit to avoid flooding the market with graduates and to ensure enough field placement opportunities in social service agencies. More than 50 per cent of the students are in the 20 to 30 age group.

ROLE-PLAYING

Role-playing in video-taped exercises helps the students to develop awareness of how they look in counselling situations. Students need to be involved to the extent that they can recognize the feelings of the person involved, but must be controlled enough as a worker to keep their own feelings separate.

FIELD WORK

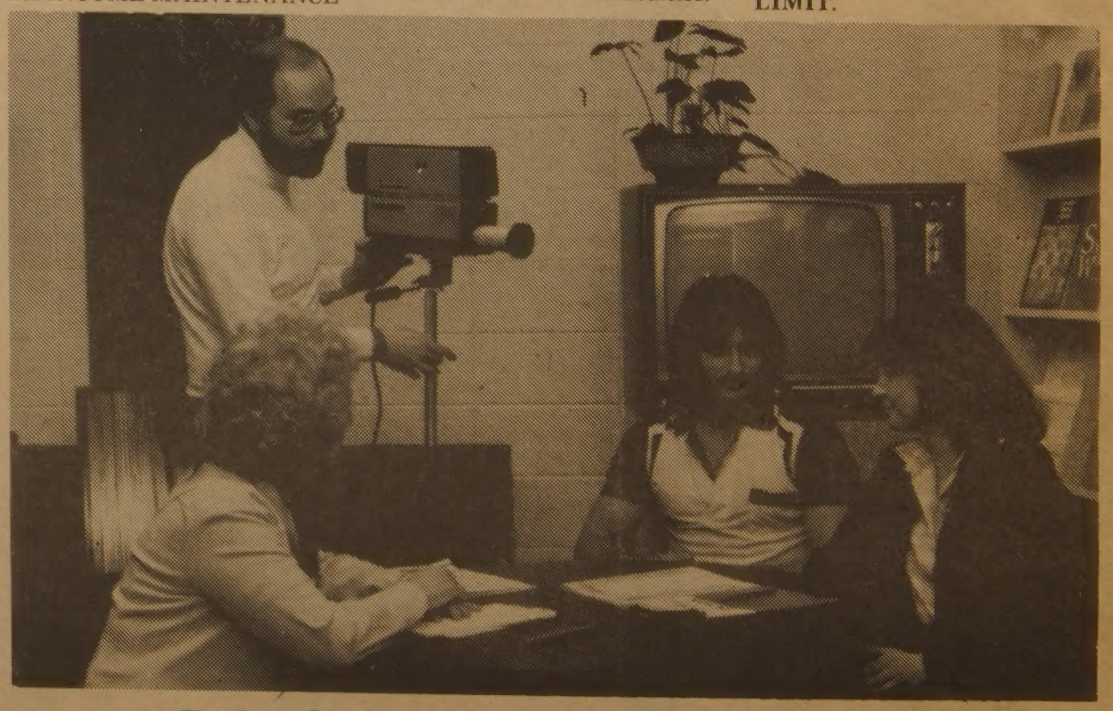
The rigorous program is based on 40 per cent practical work, consisting of more than 600 hours of field work by the end of two years.

After first term, two days a week are devoted to field placement in many social agencies throughout the Niagara Region.

EMPLOYMENT

Since there are so many governmental and private agencies which hire social service workers, graduate placement in not terribly affected by public service cutbacks. Trained as counsellors in individual casework or group situations, graduates are scattered throughout the peninsula and the Province working in a wide variety of agencies. They are employed with YOUTH in residential centres, group homes, school settings befriending agencies; with SENIORS in community work and applications for care; with WOMEN in protection and counselling places; with the DEVELOPMENTALLY HANDICAPPED in residences, group homes, and sheltered workshops; with INCOME MAINTENANCE applicants and recipients; and with other ADULTS who may be in conflict with the law, and who may have emotional disabilities or other health related difficulties.

The wide-ranging practical experience, the sensitivity and adaptability of our graduates have led to many challenging and creative positions. **THE SKY'S THE LIMIT.**



Role-playing in counselling situations

Applied Arts

Working with handicapped reward of college course

Educational Resources Technician

'Unique course' emphasis: community involvement

If you are interested in working with children and adults with varying degrees of abilities and physical handicaps; if you are looking for a program that provides versatility, flexibility and a wide variety of employment opportunities, with a track record of more than 90 per cent employment for its graduates — consider the Educational Resources Technician Program at Niagara College.

This program is a program unique in the Province of Ontario. Students in the Educational Resources Technician Program learn to work with the physically and mentally handicapped, the hearing impaired, the emotionally disturbed, children and adults experiencing learning difficulties and senior citizens.

The emphasis in the program is on "Learning by doing" and community involvement. Students learn to do assessments, develop and write programs and lesson plans. In addition, students are taught remedial work, pharmacology, use of self-defence and restraints, applied behaviour management, organizational skills, recreational activities such as games and crafts, basic library skills and the operation of a variety of media equipment such as cameras, projectors and video recorders. All students receive first aid training and are granted a St. John standard first aid certificate upon completion.

First year students spend a series of half days at the Niagara Peninsula Children's Centre, formerly the Crippled Children's Centre. Here they are instructed by a physio-therapist on posturing, lifting, feeding and doing physical activity with children who have cerebral palsy, and spina bifida. The facilities, the special equipment, the teachers, and the children are made available to our students. Students observe, ask questions and become involved in their program.

Second-year students complete five months of remedial work on a twice weekly basis working with an individual child experiencing learning problems. These children are made available through special services department, Niagara South Board of Education and Welland County Separate School Board. ERT students prepare lesson plans and all the necessary concrete materials to carry out these activities in the individual child's school. Twelve Welland elementary schools are involved in this program.

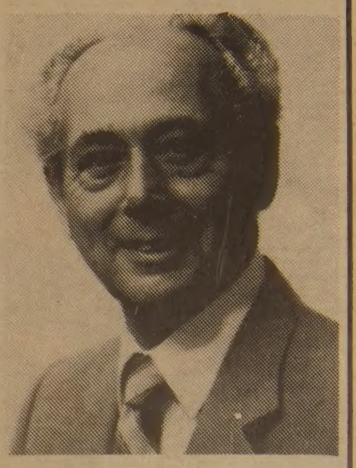
Field practice

Field practice is an integral part of the program. In addition to providing invaluable experience for students from this field practice opportunity our students gain employment. Each student spends one day per week and a complete month at the end of both years in field practice. This field practice experience results in employment for many second-year students during their graduating year at the college.

What career opportunities are available for our graduates? Opportunities for employment upon graduation from this program are varied and numerous. Employment oppotunities include work as paraprofessionals/teachers' aides in the elementary and secondary settings and schools for the retarded. With the implementation of Bill 82, boards of education in Ontario have been mandated to provide education for all levels of exceptionalities. The need for paraprofessionals/teachers' aides has greatly increased. Graduates work with the hearing and visually impaired, the physically and mentally handicapped, the learning disabled, the emotionally disturbed, autistic children and children with English as a second language. Opportunities for employment also exist in developmental and prevocational centres, residences, group homes and workshops for the mentally handicapped, homes for the aged and outdoor studies centres.

If you are interested in learning more about this exciting career, please contact Mrs. Elvira Lucas, Program Co-ordinator, Educational Resources Technician Program at Niagara College, Ext. 709. Plan to spend a day with our classes, speak to the students and see for yourself.

An Invitation



F.C. HABERMEHL

The hardest part about going to college, for some students, is choosing the program of studies that is the best for them. In this special edition we present information on so many career possibilities that you may be wondering how to make that choice.

First, read all you can about the various career possibilities and then ask yourself what kind of a job you would like to be doing five years from now. Then select three or four of the college programs that seem to lead in the direction that interests you most. Avoid zeroing in on one program too quickly; keep your options open. Next find out what the graduates of these programs have been doing since they completed their studies.

In the School of Applied Arts and Health Sciences we have a great many interesting programs but we do not want you to get into one of them without knowing what it is all about. So consider this to be my invitation to you to come to the college and visit our program specialist areas. Attend classes for a day and talk with the students about their activities. Ask their teachers questions about the career possibilities. Let us explore with you the kind of career that you would like to prepare for at Niagara College.

Call my office and check to see what the best day is to come. Just say the Dean invited you.

F.C. Habermehl
Dean of Applied Arts and Health Sciences

Variety of Electives

Niagara College has a mandate to train and delvelop its graduates for a vocation and career. At the same time, college days are a time to search, a time to explore a wide range of life questions that concern ourselves, our society and our world.

The philosophy behind the **General Electives** program reflects our beliefs that true knowledge and wisdom begin with an understanding of oneself and other people and extends to our society and the world.

General Electives give students a chance to learn and as one authority has said, "the most important skill in the job market is the ability to learn."

With these objectives in mind, students at Niagara College are offered a wide range of elective topics, such as:

***social deviance**
***marriage relationships**
***stress management**
***children's literature**
***the new Charter of Rights**
***women's role in Canadian society**
***evolution of man**
***fundamentals of micro-computers**
***the French language**
***labour unions**
***social impact of the computer**
***business and government**
***issues in health care**
***recreation and leisure**

We know full well the value of specific training for a vocation. We also suggest that self-understanding, social awareness, an understanding of culture and citizenship, and appreciation of grave social and political programs, help make our graduates sophisticated women and men of the world.

Labour Studies

In 1968, Niagara College established the first Labour Studies Certificate program in Canada.

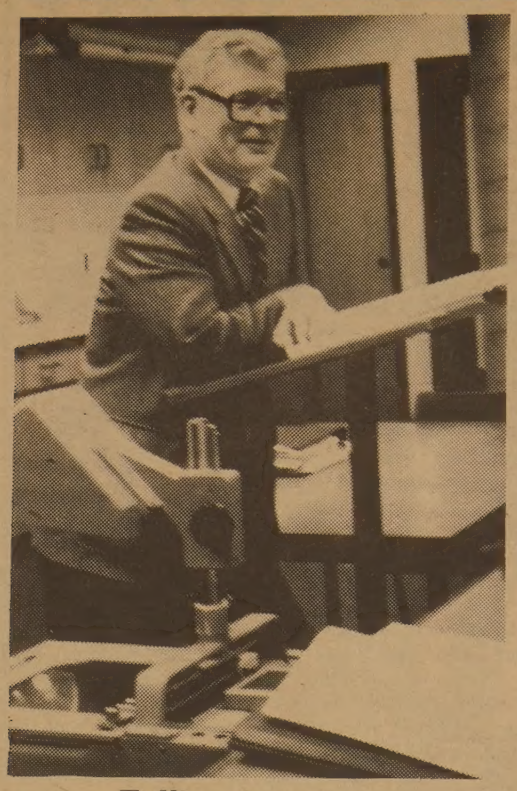
The Labour Studies program is a part-time evening/weekend program sponsored by the labour councils and the unions in the Niagara peninsula. The course offered will appeal to officers, stewards, committee members and rank and file members of a union — in the private or public sector — from the shop floor to the office to the health care setting.

Activities are scheduled in the evening, on the weekend or during the day, depending on the wishes of participants.

For further information or specific program requests, contact Sherri Rosen, the Co-ordinator of Labour Studies, Niagara College of Applied Arts and Technology, P.O. Box 1005, Woodlawn Road, Welland, Ontario, L3B 5S2.

735-2211/688-1380/384-9769/382-2383, ext. 622 or 736.

Labour Relations 'useful investment'



Telling it as it is

Are you making the best use of your time — at night? Join the Management-Labour Relations Certificate Program.

As a result of a small investment of their time and money:

Gloria is more secure — she says she knows more about the why's of her job and has outlasted two bosses, and best of all it shows in her ultimate performance appraisal — each pay day.

Marilyn now runs prestigious training courses for members of senior management for many of the largest companies and governments in the country.

Reg expanded on the concept of participatory management learned in this program to the benefit of both management and labour. He claims this program has reduced company costs and the employees have benefited through greater involvement and a better work environment.

Dave won a personnel manager's job because of his track record of investing time in the field of his choice that culminated with a certificate in Management Labour Relations.

Joan and **Harry** wanted a course in collective bargaining because they suddenly found themselves on their organization's negotiating team.

Why don't you consider enriching, updating or enlarging your investment in **YOUR** human resources — it's a terrific bargain — both in terms of $ and in terms of time. Only one evening per week and only 10 weeks. **Think!** what better way to enhance and/or expand your knowledge.

Organizations are very concerned about investing in training and development or what they now call investing in human resources. Many companies have a policy of paying most or all of the tuition for successfully completed courses. If you have this option, have you used it?

For those who are aren't so fortunate, have you considered investing some of your disposable income on yourself? — very little money ($30 per course) and a paltry time budget of five/one thousandths of your waking hours this year.

WHY NOT YOU IN THE MANAGEMENT-LABOUR RELATIONS DIPLOMA PROGRAM?

Job placement always good

Niagara College placement statistics for 1985 show 80.5 per cent of all graduates seeking employment were placed in jobs related to their field of study.

Of 52 programs, 16 had 100 per cent placement, Gord McPherson, placement officer, said.

"The figures look good," Mr. McPherson said. "They are better than they actually look because some students are working part-time in their field of study or full-time in an unrelated field."

He said he is optimistic placement statistics will be even better for 1986 graduates.

Of 499 graduates in the School of Applied Arts and Health Sciences, 81 per cent of those who sought employment — 333 of 411 graduates — found jobs in related fields. The corresponding figures for the School of Applied Science and Technology with 156 graduates were 80 per cent — 113 of 141 graduates who looked for work; 304 School of Business graduates, 79.8 per cent, or 214 of 268 job-seekers.

Applied Arts

Small presentations are course feature

Interior Design

Many aspects of business covered

This program is for those who have a creative and imaginative personality, a zest for hard work and determination, and like meeting people and dealing with personal lives and corporate images.

The Interior Design profession is looking for this kind of person. A certain segment of our society is becoming more and more aware and conscious of what they want and what environment they want to live in.

You could meet that challenge by acquiring the proper academic training to branch out into a very interesting career.

Scale drawing is the start

THIRD-YEAR OPTION

We have a two year program with an optional third year, each tailored to your particular needs. We equip you for this by a series of Interior Design courses which will teach you rendering techniques, architectural drafting, layouts, and the professional presentation necessary for the creative interior designer. The work is practical, but includes theory. Instruction is by inspection, demonstration, discussion, and handling of materials under the guidance of interior designers who are conversant with contemporary conditions in the design industry.

The student tackles design problems and is helped to analyze them in ways which lead to creative solutions. Classroom theory backs this up with such topics as the History of Architecture and Furnishings to modern lighting, contemporary furniture and current professional trends.

TASTE, CREATIVITY

Student design projects are criticized and analysed from the point of view of taste and creative ability. The program covers interior design and related business practices and procedures. Specialists discuss trade information, such as selling and merchandising, essential to the proper conduct of business. Methods of buying, negotiation with sources of supply, shop organization, and psychological elements of customer approach and consultation are analyzed. Students are taught to supervise estimating, fabricating, and installation of the decorative features of a project, whether residential, commercial or institutional, with recordkeeping and billing included.

Today in our ever changing world design firms are in a great need for such talent.

POSITIONS WAITING

If you have been with us for the required time and meet the necessary requirements there could be a position waiting for you out there anywhere in Canada or the United States.

With your willingness to travel and enjoy life with a well paid position in a design firm you could have a bright, interesting future.

Human Relations

Stresses 'flexibility'

Our skill-oriented program in Human Relations stresses in a practical format an even balance between the basic concepts and skills needed for effective dealing with people on a one-to-one or on a small group basis. These critical skills will form a flexible basis for students who have decided on any of a variety of careers working with people and will distinguish our graduates from other programs.

The first year provides a comprehensive introduction to the major areas of program study: communications skills, leadership skills, and motivational skills. The second year not only intensifies these skills but offers the opportunity to specialize in selected areas. Instructors in the Program encourage active student participation in discussions and in exercises. Various instructional methods include case studies, role playing and discussion/lectures. In both years, field placement provides an opportunity to view these skills in the working place and to provide material for career selection.

Successful graduates of the Human Relations Program have gone to work in a variety of people-helping careers. A recent graduate does the Public Relations for a major attraction in New York State, while other graduates work with the handicapped, the public, in such varied positions as counsellor, Customs/Immigration officers, hotel administration, and sales representatives in business.

And, overall the job placement continues to be above average.

See co-ordinators

All copy in this edition was provided by co-ordinators of the individual programs.

For more information, see the program co-ordinator.

Applied Arts

Putting it together in the News

Journalism-Print students lead lives of reporters

Linda is a copy editor with The Globe and Mail.
Penny is a CBC, Yellowknife, broadcaster.
Nelle reports for Canadian Press at Thunder Bay.
Anita, Joe and **Tony** report and take pictures for the Niagara Falls Review.
Bev is editorial page editor for the Peterborough Examiner
Jeff is chief photographer for the Grand Prairie, Alta., Daily Herald-Tribune.
Kathy is anchorwoman for CHCH-TV, Hamilton.
Gloria is traffic manager for CFMT-TV in Toronto.
Paul and **Paul** are reporters for The Hamilton Spectator.
Phyllis is editor of the Fort Erie, Ont., Times-Review; **Pauline** and **Bonnie** are reporters there.
Bob is managing editor at Woodstock; **Doug** at Orangeville, and **Rob** at Moncton, N.B.
Diane is editor of Canadian Coin News in Bracebridge, Ont.

The list goes on and on — success stories of Journalism-Print program students, some of whom obtained experience on smaller newspapers before going on to the larger ones. The practical nature of the program gives smaller daily and weekly newspapers work-ready employees — ready to take on assignments in reporting, writing, photography and lay-out from the first day on the job.

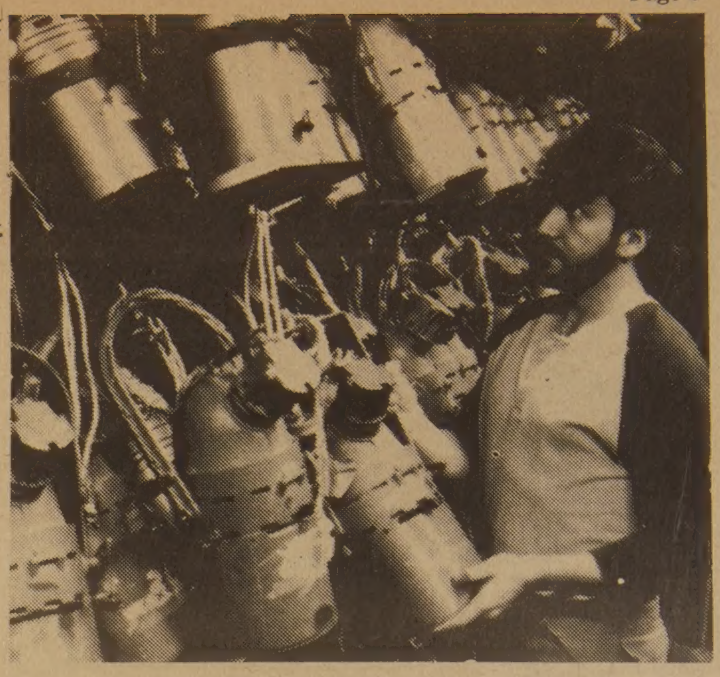
Regularly 100 per cent of journalism students — even some non-graduates who may not have completed an elective — who actively seek work have newspaper jobs. The demand for Niagara College journalism students is strong every year, so much so that each year jobs go unfilled.

Journalism students get their practical training in the first term, covering speakers who visit the college. The life of becoming reports, photographers and interviewers intensifies with each term until by the second year, they are no longer students but reporters and photographers for the Niagara News, the paractical lab of the program.

In addition to specialist subjects dealing with reporting, photography, the law and lay-out, the program is rich in liberal studies such as history, politics, current events, economics and geography.

Through the Niagara News, the "new" reporters live the lives of reporters and reporter-photographers, facing an important challenge to present the news as it should be presented by an ever more important Canadian profession.

And the reporters' development is guided by professional journalists through the four terms of the two years in Journalism-Print.



Behind the scenes

Across country

Theatre grads work backstage

For every professional theatre company taking a bow onstage in Canada, there is likely to be at least one Niagara College Theatre graduate backstage helping to make it happen.

In theatres throughout the country, the large numbers of production personnel who are graduates of Niagara College attest to the fact that the Theatre Program is one of the country's foremost training facilities for technical theatre. Our graduates' names may not be up in lights, but they are the people who keep those lights and all the other technical areas going.

The intense, two-year practical program, augmented with appropriate theory and academic studies, gives the student a thorough knowledge of contemporary theatre practices, and highly developed skills in specific areas of his or her choice.

Graduates from the two-year program, who have attained an outstanding level of achievement, are invited to return for two additional semesters of further skill refinement. The first of these two semesters is spent at the Theatre Centre, where the student is involved in developing further specialized skills and production responsibilities.

The student spends the second of these two semesters on a work-experience placement with a professional theatre. Throughout the country, theatres welcome our students who subsequently find ready employment within the theatre industry and related fields. This placement record is very nearly 100 per cent.

In accordance with the mixture of the theoretical and the practical exhibited in the program, the faculty comprises individuals who combine an outstanding level of practical skills with effective teaching talents. They work together to insure that the graduates are well-qualified to begin rewarding careers in technical theatre.

Recognition of the effectiveness of the Niagara College Theatre program is reflected, not only in the high employment rate among its graduates, but also in the large numbers of out-of-province students, from every region of Canada, who have selected this program as the best way to prepare themselves for careers in technical theatre.

In radio, television Genuine hands-on experience

Why should you study Broadcasting at Niagara College? Why indeed...there are other colleges offering a variety of courses in broadcasting throughout the province.

Niagara College is the only college with a three year program which includes Radio, Television and Film production and offers you the ability to specialize in your chosen field after 1½ years...after you have had a chance to make up your mind about exactly what you would like to do. This is a very important feature if you are one of the many students who know that they would like to work is some area of radio, television or film but are not sure just where.

Students in Niagara's Broadcasting program become involved in a variety of genuine hands-on broadcast projects.

For example...Radio students use four control rooms and production facilities to run a closed circuit radio station CRNC, which is carried daily by Maclean Hunter Cable TV and Armstrong Communications. Radio specialists also produce a weekly magazine program featuring topical reviews and editorials all designed to prepare graduates for the variety of jobs in radio. A unique aspect of Niagara's program allows students interested in performing to develop their talent in both radio and television. Radi specialists provide a talent pool for TV and film production.

Mobile van

Television students utilize the college's color mobile television van, computer editing system and portable television equipment to produce news and current affairs programs, variety programs, children's programs, and interviews. Our mobile cameras also cover area parades, elections, hockey and basketball games which are broadcast to the Peninsula over the area cable stations.

The college fed major sporting events in St. Catharines to Ontario television stations via Anic C3 satellite.

In addition to producing 16 mm films during the school year, our film students have been able to use government grants to produce documentary films on a variety of subjects of local interest during the summer months. This provided summer employment and a professional job situation. These films have been very successful and are being distributed to the educational market.

Field placement or internship is another important feature of the Broadcasting program at Niagara. Students are placed with radio and television stations, post production centres, network research offices, police audio visual units, cable television stations, film production companies, music video centres and electronic news gathering centres for periods of two to three weeks in their final term. This not only provides excellent experience and exposure, but often leads to full time employment upon graduation.

Placement

Our job placement figures are good...in fact they are very impressive. We assist in placing between 85-95 per cent of our graduates. We can't guarantee you a job when you graduate — but neither can anybody else if they are being honest with you. We can offer you a top notch three year program in all facets of broadcasting with a proven track record.

RTV covers election

Studies in psychology

How do babies learn to talk? What motivates a person to commit crimes? Can we learn to win arguments without losing friends? Psychology instructors and students studying psychology at Niagara College try to find the answers to many fascinating questions.

Here at Niagara, many different programs include psychology courses. Dental Hygiene students study the research literature to answer questions like — How can I explain teeth scaling to an intellectually handicapped patient? How can I help patients feel less stress in the dental chair?

Early Childhood Education students study questions like: Can the intelligence of children be raised by stimulating programs? How can teachers and parents raise mentally healthy children?

Health Science Preparation students ask, How can I help a patient adjust to a chronic illness? Ambulance and Emergency students wonder, How can I assist a patient who is intoxicated? Law and Security Administration students consider, How can I resolve a domestic dispute without anyone being injured?

Psychology courses are also popular electives that contribute to the general education of college students from programs as diverse as Computer Technology and Library Technicians, Secretarial Arts and Hotel and Restaurant Administration. Niagara students choose from a wide variety that includes: Stress and Stress Management, The Psychology of Child Management, Explorations in Dream Theory, Teaching Illiterate Adults to Read and Write, and Critical Issues in Psychology.

From Human Relations to Educational Psychology, from Personality Dynamics to Mental Health, there are exciting opportunities to study psychology at Niagara College.

Applied Arts

For library technicians

Challenging, exciting change

Challenging and exciting are the changes now to be found in library work. The Library Technician Program at Niagara College is in the forefront of these innovations. Students entering the Program are ready and willing to meet the challenges of serving society.

A vast array of talents and interests has been the hallmark of students studying library techniques with us. Music, art, languages and so forth, have been found by our graduates to be invaluable in the market place.

Computers abound in society today and no less so in libraries. Introductory courses on computer literacy are taught at the College by qualified instructors. The Program is the happy owner of a modern microcomputer used for training in library techniques.

The Program prides itself in offering unique and relevant courses. Niagara is the only college in Ontario to provide a word processing course. This fascinating computer technology is used in more and more libraries and, as such, has been introduced into our curriculum. Students currently enrolled in word processing are intrigued by it and interested in its potential.

Library technician operates computer

CREATIVE DRAMA

Creative drama is another winner with our class. The group loves the content and method of presentation in this self-expression course. Graduates have remarked on its practical value in the work place.

Niagara College has met, and will continue to meet, the challenge of change. Invaluable feedback is actively solicited from the library profession both within and outside the community. The advice received is acted upon. As Chairman of the Ontario Association of Library Technician Instructors, the Program Coordinator is in constant touch with trends in other library technician programs throughout Ontario.

Exemptions are granted for courses taken elsewhere and for relevant work experience. Selected courses can be taken in the evening as an alternative to the full two-year day program. Class size, somewhat smaller than in comparable programs in larger urban cities, guarantees more individual attention.

Field practice consists of a two week period at the end of each of the four terms. While most practical work is done in local libraries, students have done this work throughout the province and the country. Practice work in different types of libraries introduces the student to the range and variety of library service. Besides the valuable experience obtained, students often use the field supervisor as a reference for future employment.

TOP FACULTY

Faculty teaching the library courses have masters degrees in library science. Years of college libraries in Ontario, Saskatchewan, Quebec and Newfoundland add to those qualifications. Weekly guest lecturers from the library field share their expertise with the class. Experienced and well qualified instructors teach the other disciplines at the College.

Employment offered in a wide range of libraries is one reason why 70 to 80 per cent of Niagara's graduates have been successful in obtaining library jobs. Public, college, school, university, government, business, legislature, legal and hospital libraries have employed our students. Additionally, graduates have obtained jobs in library-related areas – bookstores, audio visual companies, film companies, book wholesalers.

The Library Technician Program at Niagara College invites you to join us so that, together, we can guarantee that libraries will have a continuing source of well qualified library technicians to meet the challenge of change in the market place.

Sociology studies many relationships

Sociology is the study of relationships among people, or the study of society. In a sense we all do something like sociology in our daily lives. Before studying sociology, we have learned a great deal about how people are likely to behave and what we can expect to happen in a wide variety of situations. Much of this has been taught by one's parents, peers, the media and one's own experience. This knowledge, a rudimentary form of sociology, provides us with an adequate understanding of how to live our daily lives. This differs, however, from the discipline of sociology, which is a scientific study and knowledge of the social world in which we live.

Introductory Sociology serves many of the program areas at Niagara College, and several specially designed courses have been tailor-made for individual program areas. Child, Home, and Family is offered to Early Childhood Education and Social Service Worker students. The Media and Society is a unique course taught in the Journalism-Print, Broadcasting, and Library Technician programs. Canadian Society and Social Problems are studied by students in various programs. Medical Sociology is offered in the Allied Health programs.

POPULAR COURSES

Sociology electives have proven to be popular over the last few years, with such courses as Women's Role in Society, Criticial Issues in Sociology, Social Deviance, Marriage Relationships, and the Social Impact of the Computer. All of these are taught to students from many programs across the College.

With these many and varied offerings, the Sociology Department at Niagara College provides the student with a clearer, more organized and critical view of his world.

General College offers options

Not sure about your career or personal goals? You can be! General College Program is the answer. The Program allows and assists those students who are as yet uncertain about their future objectives to define personal and career goals, through the offering of a number of options such as Social Sciences, Humanities and Fine Arts.

The Program offers courses in typing, remedial and advanced mathematics, basic computer skills and word processing. An offering of basic French and physical education is under current consideration. The Fine Arts option offers courses in Life Drawing, Oil Painting, Media and Hand Lettering and some of these courses are offered through Continuing Education. Students of the Fine Arts option prepare portfolios which have enabled a number to continue studies in other institutions.

General College is one of the very few Programs which has a January as well as a September start. Each and every student entering the Program is guided in the selection of courses, and receives an individual timetable. This level of guidance, counselling and assistance continues as long as the student is associated with the Program, and, in some cases, beyond.

Your interests

By selecting courses of interest from the School of Applied Arts and Health Sciences, including Fine Arts, and given the availability of space from the schools of Business and Applied Science and Technology Programs, a student is able to determine how the individual career or learning goals are to be achieved. In this way, it is possible to design a special program which can be the basis for further education, or will meet immediate specific career objectives.

A two-year, four-semester program accommodates students with a variety of educational needs. This program is appropriate for those who are undecided about educational or career objectives, or who find existing programs unsuitable to their needs.

Students who have a limited amount of time to spend at the College can select courses to fit their schedules on a part-time basis during the day and/or night. Students who wish to obtain advanced credit standing before moving to career programs, or who want to obtain diploma status, or are considering re-entering the work force after a long absence, and would like to assess their abilities, can benefit from the General College Program.

Those students who graduate from the Program are issued a diploma designated as General College.

Business

Be a professional in one year

To enhance your secretarial skills, the one-year Secretarial Studies Program is what you're looking for.

The emphasis is on increasing your knowledge of keyboarding techniques, acquiring efficient and accurate transcription skills, developing "hands-on" experience on the word processors and microcomputers — **the tools of the future.** At Niagara College we have the Wang Word Processors, one of the most sophisticated word processing distributed logic systems on the market. In addition, you will acquire good language skills, good word habits and a positive attitude. Upon graduation you will be an asset to any firm who employs you.

WORK EXPERIENCE

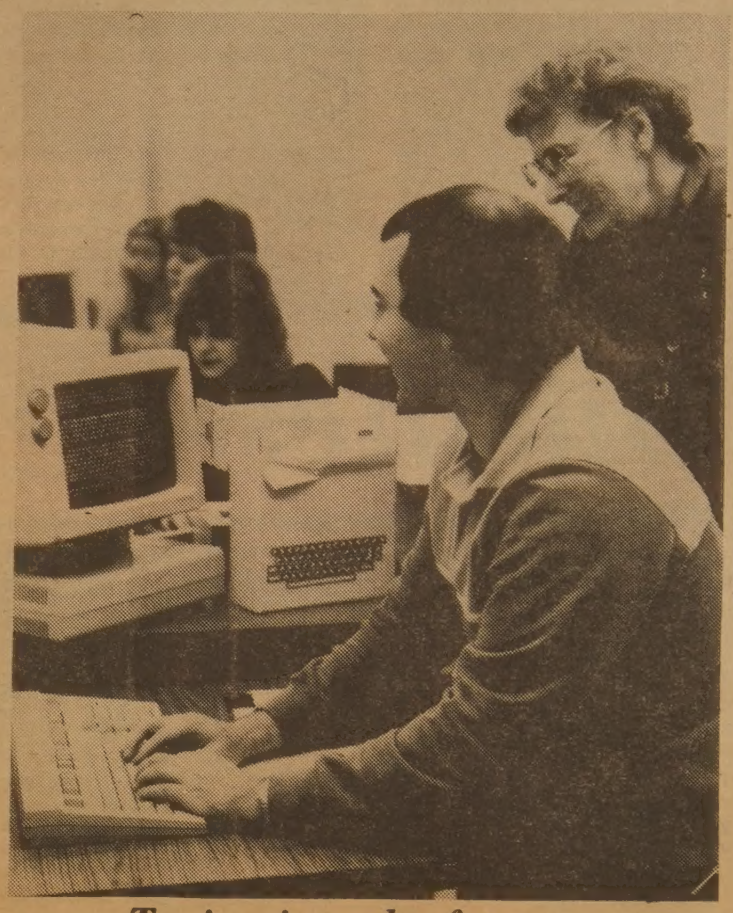
A two-week work experience program gives you the opportunity to see the mechanics of a real work place. Past students have enjoyed this component of the program very much and some have received permanent employment through these business contacts.

EMPLOYMENT OPPORTUNITIES

Secretaries and administrative assistants are needed in every type of office. Few other professions or careers offer a choice from among so many types of employers with such widely divergent interests and objectives.

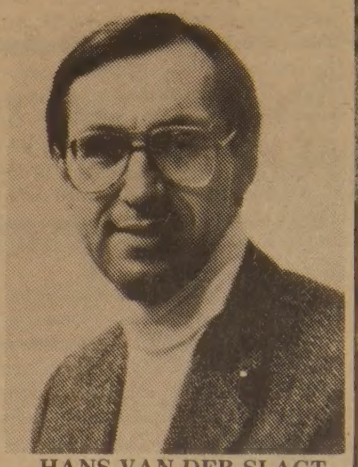
Our graduates are sought after and most find employment in their desired field.

Be a professional! Be a secretary!



Typing into the future

Start here!



HANS VAN DER SLAGT

Your future can begin in the School of Business at Niagara College. Here, we will train you in the skills required in today's highly technological information society. These skills will not only serve you well immediately upon graduation, but will also form a solid foundation on which to build your future career.

Computers and the communications technology have had a profound impact on the way businesses are operated. With the help of Advisory Committees attached to all of our programs, we are constantly updating the curriculums to include new and relevant training. The Advisory Committees are made up of successful men and women engaged locally in a variety of business functions.

In the following pages, you will be able to read about the School of Business programs which range in duration from 3 years in Business Administration to 15 weeks in the Food and Beverage Service program.

You are about to make an important decision. Before selecting a program, consult with your guidance counsellor and talk to business people. The staff in the School of Business will also be pleased to explain to you in greater detail what we offer. Don't hesitate to contact us — our only purpose is to serve you well.

Hans van der Slagt
Dean, School of Business

Job guaranteed upon completion of bilingual secretary program

What distinguishes the Bilingual Secretary Program from a regular program are the co-op word terms in a bilingual office environment. The in-class sessions alternating with the practical work terms offer the graduates of this program the indisputable advantage of a fully professional training.

No matter what size — large or small — a company or business cannot function without a secretary to see the smooth running of all office functions. For this reason, at Niagara College, we strive to train competent secretaries capable of handling all their responsibilities in both the French and the English language.

With all the new technology — word processors, microcomputers, etc. — being introduced in today's office, it is necessary for Niagara College to prepare all the graduates to meet this new challenge in the business world. As a Bilingual Secretary student you will receive extensive training in electronic technology in French and in English..

In the two-year Bilingual Secretary Program you will have the added advantage of two co-operative work terms of four months each as well as three in-College education terms. Those of you who are prepared to work in an office will discover that the co-operative education Bilingual Secretary Program at Niagara College is the key to a successful and rewarding career.

Business offices in industrial areas, medical offices, legal offices, engineering and government offices are but a few of the areas in which our graduates are placed. Because of the Co-operative education component of this program, the rate of employment is 100 per cent! In fact, there are more positions available in the bilingual field than there are graduates!

If you have taken French immersion courses or the equivalent, you can successfully complete the Bilingual Secretary Program. Our English graduates achieve the same success as bilingual secretaries as our Francophones.

Here are some success stories:

"Linda" is secretary to the Minister of Natural Resources at the Provincial level. She graduated in 1983 and has since received three promotions which, consequently, gave her three substantial raises in salary.

"Mary," also a graduate of 1983, is secretary to the Co-ordinator of French Language Services for the Province of Ontario. She uses her French skills all the time. She also receives an enviable salary.

All of the graduates of the Bilingual Secretary Program — without exception — enter the work force immediately upon completion of their studies — a 100 per cent placement. There are a variety of positions open to you. **The choice is yours.** Employers seek our students for permanent positions as well as for co-op positions.

Hotel Admin

Goal: No. 1 industry

Niagara is one of two colleges in Ontario offering a three-year program with a summer work experience component of 15 weeks per year. To accommodate the work experience, the fall term starts in October.

There are two active student *associations unique to the Hotel* and Restaurant Administration Program.

1. Hotel Club — responsible for student social activities plus the organization of two student-catered professional dinners — the Christmas dinner and the International dinner.
2. Canadian Food Service Executives Association-Junior Branch — student branch of a professional trade association.

We also run the Rainbow Hotel Centre Dining Room, a fully-licensed restaurant operated by second-year students and open to the general public one evening per week.

Placement opportunities for graduates are good as the hospitality industry strives to become the number one industry in Canada by the year 2000. Most graduates fill junior positions which will provide the opportunity to promotion, based on hard work and dedication, to advanced administrative positions.

Graduates are working in all aspects of this widely varied industry from fast food outlets to first class, full service restaurants; from small inns and resorts to major hotel chains in such differing fields as bartending, dining room service, front office management, personnel, sales, housekeeping, banqueting, training and general *management. We have graduates* working all over Canada as well as in the United States, England, France, Australia and Hong Kong.

Positions held by successful graduates:

Owner of a local steakhouse — Niagara Falls

Food & Beverage Director — Mount Royal Hotel, London, Ontario

Training & Personnel Co-ordinator — Wendy's, Toronto

Regional Training Director — Holiday Inns of Canada

A one-year exchange program with a similar college in England is available to two students each year.

The program is well supported by industry in the form of awards in recognition of student excellence.

All program applicants are asked to attend a student orientation/information session during March/April to view the facilities and gather more information about the industry and the program.

Niagara keeps pace with business world

No single factor has had more influence in today's business than the emergence of the microcomputer. Not only has it given small business access to the tools that were only available to multi-million dollar corporations a scant decade ago, but also it has brought into the business office many new tools to increase productivity of middle and upper management. More than ever, computer professionals have to be aware of new hardware, software and techniques in order to provide their company with the advice and support required to select and use its computer resources.

Niagara College has been quick to adapt to this changing environment in the business world. Over the past few years the college has installed several microcomputer labs including more than 60 microcomputers in the three labs provided for the School of Business students. There are also about 60 terminals on the VAX 11/780 mainframe computer dedicated to academic use.

In addition to the increased computer facilities, changes are being made continuously to the programs and courses to maintain its relevancy. With the assistance of Advisory Committee, consisting of more than a dozen representatives from local industry, the two year Computer Programmer program has been designed to give you a basic foundation of both computer and business concepts that can be carried into your future career.

Knowing the concepts, however, is not enough. You must be able to use your knowledge and the "hands-on" approach of the program provides the opportunity to develop the necessary skills.

From the first day, you are introduced to the microcomputer labs and the use of wordprocessing, spreadsheet, data base, graphics, and other application programs. Programming courses on both the microcomputers in BASIC and the VAX 11/780 mainframe computer in COBOL, provide you with the skills required to develop specialized programs when such are required.

Computer course graduates find jobs all over world

The Data Processing Management Program at Niagara College is a six term program designed to offer the student training in computer programming, applications, and systems design in business. In order to accomplish these goals, the courses and projects are set up to simulate "real life" job activities. At Niagara, this program is continuously updated by changing the curriculum in order to keep up with the ever changing environment of the computer industry.

Students will be trained equally on the large scale computer (Digital Equipment Corporation — DEC VAX 11/780) and various microcomputers. Access to the VAX equipment is obtained by using terminals. There are also several microcomputers available for students' use. These facilities are open for student use during the day and evening.

The specialty courses will cover all aspects of computer programming, systems design, database design, operating systems and computer applications.

COMPUTER PROGRAMMING COURSES consist of algorithm design — the logical steps required to obtain the desired result in a business information systems.

COMPUTER APPLICATIONS COURSES will introduce the student to the computer program — followed by the conversion of the algorithm into a computer program using one of the computer languages. In this specialty COBOL will be the emphasized language, although the student will gain expertise in BASIC, RPG II, and another language chosen by the student from the language elective block. The languages offered in this block will vary as the industry changes, and as student desires change.

SYSTEMS DESIGN COURSES involve systems concepts and theory as they relate to the techniques of investigation, analysis, documentation and design of various hardware and software products that are available for the solution of business problems. Many of the current products are used by the students, including spreadsheets, word processors, graphics, operating systems, database systems, and data communications. By being familiar with these tools, the student is better able to evaluate and select the proper tool for application in the solution of a specific problem.

The courses offered throughout this program of specialty closely follow the outline in the Data Processing Management Association (DPMA) model curriculum for computer information systems education.

Graduates of the program can expect to find employment in the areas of computer programming, systems design and implementation of business systems. They would find success in either a large scale computer department or in a small operation utilizing a microcomputer. Many of our graduates are now in management positions and very often return to Niagara College to hire for their companies.

Although many graduates have found employment in the Niagara area, several others have opted for careers in other locales. They are employed throughout Ontario and Canada. Some are employed as far away as New York City and Caracas, Venezuela.

Be a 'space-age' secretary

The modern office has undergone a major revolution because of computerization. Now it is possible to prepare a document at top keyboarding speed, touch a key and have it transmitted to the other side of the world in about six seconds! You can make a telephone call from your car or plane, have the call received instantaneously in Germany or Australia and if the person you are calling is not in, a computer will store your message until that person arrives. When the phone is picked up, that person hears the sound of your voice and can call you back.

Video meetings and conferences are now being held via satellite, e.g. a guest speaker may be in a room in Los Angeles and all the people attending the conference seated in a large hall in Toronto. Not only can the Toronto group see and hear the speaker, they can talk to that person, draw diagram for viewing in Los Angeles and the speaker can correct the drawings for all to see...The whole conference can also be recorded on video tape, the notes can be fed into a word processor or a computer by a scanning machine, and printed out at a rate of between 500 to 1,600 words per minute.

It is now possible for a person to talk to a video screen and have the dictation appear on the screen. In today's office, a secretary can type in a list of figures, touch a key or two and have a full-color bar chart complete with designs prepared and printed out. With the touch of one finger on a video screen or a keyboard, many formerly difficult tasks can be performed automatically.

Co-op, too

If you are interested in office work and would like to be able to operate automated office equipment, the Secretarial Arts (Co-operative Education) Program is for you.

The Secretarial Arts Program is a co-operative education program. There are two compulsory four-month co-operative work terms.

This program strongly emphasizes training in the electronic technology which is now coming into offices all over Canada. The program also has a shorthand or machine transcription option.

As a Secretarial Arts student you are given an opportunity to work at your own level of ability in the three academic, on-campus terms. There are two levels — one intermediate, one advanced.

Your courses include word processing and data processing applications. Other courses in the program build skills and excellence in the traditional office subjects. Emphasis is placed on classroom work, tests rather than examinations and daily excellence in work performed. A great deal of project work is done to help you practise decision-making, setting of priorities, and working on your own or in a team setting.

You are taught word processing courses on a menu-driven, distributed-logic, word processing system capable of performing many "space-age," highly automated operations such as electronic editing, transferring, messaging, data collection and calculations. It is powerful but easy to use. Software applications are covered.

Your data applications courses emphasize electronic spread sheets, information management, time management, and graphics.

The most important exposure to prospective employers takes place in your work terms. Your supervisor, company executives and their business contacts are all part of your daily business life. These contacts make it so much easier to obtain that first permanent job. Because it is a co-operative education program, the Secretarial Arts Program has a very high job placement rate. An average of 96 per cent of the graduates have permanent positions before graduation day. Many are employed in office support positions, or have been promoted to executive secretaries and administrative assistants. A good percentage have advanced to positions as executives in the companies they work for.

Jane (not her real name) went to work for a company in the Niagara Peninsula four years ago. Within two months she became Executive Secretary to the Director of Sales of her company for all of Canada and two years ago she was promoted to a managerial position.

Mary went to Toronto for her second co-op term and was placed in the reservations room of a large hotel chain. She was hired permanently to work as a secretary before she graduated. Six months later she was promoted to the position of Executive Secretary to a Vice-President. She still holds that position three years later.

These examples are not unusual. The stories are repeated for many of the graduates.

The business world has been revolutionized by the silicon chip and the marvellous capabilities of modern computers and word processors. The Secretarial Arts Program at Niagara College offers you an opportunity to be part of this exciting new world and to get eight months of paid experience before graduation as well. Come and join the revolution!

Business

Computer training heavily emphasized throughout program

'Hands-on' experience

Finance graduates in demand

Are you interested in a career as an accountant or financial manager? Recent studies have indicated that the demand for qualified financial personnel will remain strong for a number of years to come. The proliferation of information caused by the computer has created an increased need for people who not only create reports, but also analyze and interpret the results. If you are interested in a career in finance, then the financial management program may be worth looking into.

Many of the students enrolling in the program do not have any previous training in business. Therefore, the program has been designed to take the students from elementary to advanced topics, smoothly, over the course of three years. During the first year, the program concentrates on management subjects that are designed to provide a strong foundation for future studies in business. The next two years cover advanced courses in accounting, finance and management.

Computer training is heavily emphasized throughout the program. Students have "hands-on" exposure to mainframe terminals and microcomputer applications. They learn to use the computer to create information and to analyze the results. Graduates are well prepared to enter today's increasingly sophisticated world of business.

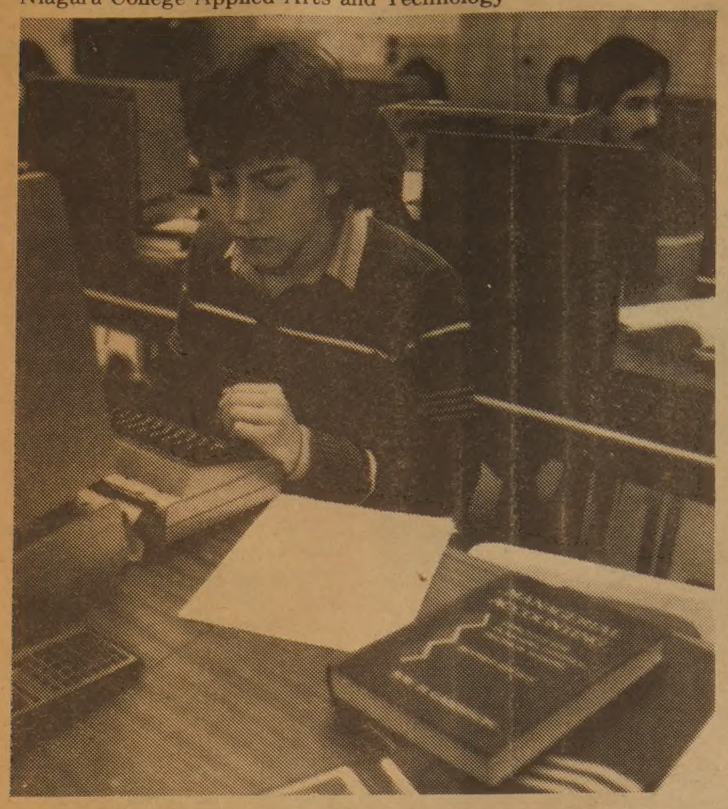
Classes are taught not only by traditional approaches, but also by various simulation techniques such as computer assisted models, projects, case studies, practice sets, field trips, etc. The accounting faculty are all professional accountants who have extensive expertise in a variety of business endeavours. They know the value of practical experience and incorporate the hands-on concept throughout the program.

When you graduate, you could be well on your way to becoming a professional accountant. The society of management accountants. (C.M.A.) and the Certified General Accountants Association (C.G.A.), each give credit for courses taken in the program. Upon graduation, you can earn up to three years credit towards the five year C.M.A. or C.G.A. accreditation at the same time.

Financial Management graduates are in constant demand by employers. The program has earned one of the highest placement records over the years. Graduates enter the work force as qualified intermediate level accountants and have been employed in every sector of the economy; business, industry, government, banking, etc. Recent graduates are employed as cost accountants, analysts, office managers and controllers.

Candidates for the Financial Management Program must be highly motivated, logical and inquisitive. Aptitudes in English and mathematics are essential prerequisites for success. It will not be easy, but if you are willing to work hard, a rewarding career in the field of finance may be waiting for you.

Business



Traditional and co-op instruction

Enter work force from Accounting

The Business Accounting program is designed to train students to enter the work force as qualified intermediate level accountants. The two-year Business Accounting program offers a traditional and co-operative mode of instruction and training. Some of the highlights are:

— Professional Exemptions
CMA and CGA exemptions are available to our graduates. These professional accounting designations are attained by many of our graduates. Graduates may receive credit for up to 3 years of the 5 year course.

— Employment
Past and recent placement has been extremely good.

— Computers
Extensive hands-on micro and main frame applications.

— Females
Two-thirds of the students in the program are women.

Interested applicants should contact Mr. J. P. Vida, Program Co-ordinator, School of Business, Applied Management Division, P.O. Box 1005, Woodlawn Road, Welland, Ontario, L3B 5S2. Telephone (416) 735-2211.

Manager, supervisor, director: grad jobs

Personnel Management and Industrial Relations, an option of the Business Administration program, has opportunities for individuals looking to develop their careers in a growing professional environment. Importantly, this opportunity comes as the result of the increasing growth of business.

Required are the individuals who are willing to invest three years of their life in our co-operative program, to develop strong communications and organizational skills. A thorough and highly professional approach coupled with the ability to work well independently is essential.

We offer the educational requirements to qualify for the CPM (Certified Personnel Manager), the designation of the Personnel Association of Ontario, and a real opportunity for career growth and progression.

Past graduates are leading exciting and successful lives.

We cannot guarantee you a job when you graduate, but we can offer you a top-notch three-year business program with a proven success.

Bob is an Assistant Area Manager with Canada Packers, Inc., in the Maritimes.

Brenda is a Vertical Marketing Representative with The Answer Computer Centre, Markham.

Brian is Employee Relations Manager with Echlin Canada Inc., Toronto.

Dan is Manager of Labour Relations and Employment with Space Aerospace Limited, Toronto.

Deborah is Driver Supervisor and Operations Manager with C.T. Transport, Oshawa.

Gord is Director, Administration, Canadian Operations with Seven-Up Canada, Inc., Toronto.

Harold is Labour Relations Supervisor with the Municipality of Metropolitan Toronto.

John is Manager, Employment and Benefits with the Corporation of the City of Kitchener.

Helen is Plant Personnel Manager with Foster Wheeler Limited, St. Catharines.

Make commercials, do polls, sell

*All businesses, government agencies and non-profit organizations are looking for well-trained people with marketing skills. In the Marketing/Sales Programs at Niagara, you will acquire the skills necessary to market your personal qualifications as well as those needed to sell your organization's products and services.

Niagara offers two programs in marketing. A two-year diploma program in Business — Sales and Merchandising, and a three-year diploma program in Business Administration — Marketing Management. Both programs are designed to prepare you for employment with large organizations as well as operating your own business.

Employers desire graduates who demonstrate good attitudes in addition to satisfactory academic performance. At Niagara, marketing students are quick to learn the value of developing good attitudes. Therefore, marketing students are involved in clubs and other activities which develop these attitudes and mature the skill of dealing with people. This objective is achieved by the limited numbers per class so that individual attention is devoted to the development of each student.

The marketing programs include a number of projects and assignments which take students off campus and into the real world of business. These projects range in nature from opinion polls and other market research investigations to the production of TV commercials and the actual selling of a product to a real prospect. In this way, students learn to apply the theories of the classroom and also learn the valuable lesson of what more they need to know before starting their own careers.

The two-year program is a blend of practical courses which develop directly marketable skills in the sales/promotional aspects of business. Current government reports indicate there is a continual demand for people with these skills regardless of business conditions.

A specially designed curriculum for the two-year marketing program is available for students to start studies in January, as well as in September. This special curriculum also provides for students to complete an accelerated version in one and one-half years. The employment rate is excellent and includes ample opportunities for women and mature students.

On the job and in the classroom

Try 3-year marketing

The three-year marketing program prepares students for a wide variety of job entry level positions in business — usually with the position of management trainee. This program includes the co-operative education mode of learning. Students spend eight months of on-the-job training in industry before returning for a final semester of on-campus studies in preparation for a permanent job. Many employers prefer students who have some related work experience before starting in a permanent position.

A number of nationally recognized firms visit the campus annually to recruit graduates from marketing programs. Graduates who are now in responsible and well paid positions in Canada and elsewhere in the world, frequently return to speak with the marketing students. In this way, students get valuable guidance from those who were in the same classroom only a few years ago.

At Niagara, the marketing programs are taught by people with many years of business experience in the subjects they teach. Special emphasis is given to the real "need to know" for students to successfully enter this field of business. Years of real marketing experiences are called upon and discussed in these classes daily.

In keeping with the requirements for the business personnel of today and tomorrow, mainframe and micro-computer applications are integrated into marketing courses at Niagara. Students learn to use the popular hardware and software applications which are required in the operation of modern businesses.

High school graduates and mature individuals with some business experience who wish to develop the necessary business skills should come to Niagara to learn more about its marketing programs. These programs are designed and regularly reviewed by experienced business personnel from the community so that a student can become the well paid employee that he or she deserves.

For further information, applicants should contact Mr. Larry Cote, co-ordinator for marketing programs.

Industrial Management

Co-op gives you a head-start

The field of production planning, quality assurance and materials management has become THE employment growth area for Canada's manufacturing and service industries in the 80s.

The Industrial Management Program at Niagara College provides a comprehensive background in Business Management as well as specialization in Production and Operations Management. Graduates have been placed in positions ranging from supervisory trainee at General Motors, to the purchasing department at Hayes-Dana, to inventory control at Toronto's Computer Innovations — several graduates are plant managers in the Niagara peninsula. The 1984 graduating class had a placement rate of 85 per cent.

If you have an aptitude for inter-personal and quantitative skills and a genuine desire to succeed, Industrial Management could be the program for you.

CO-OP EDUCATION

As one of the School of Business Co-operative Education programs, Industrial Management provides you with the one thing employers want most — experience and on-the-job training. Between their second and third years, students in the program must complete an eight month co-op work experience term. In class, you get exposure to the latest ideas and approaches, "state of the art" microcomputer applications and — through Co-op — a real head start on a successful career in management. In addition, graduates can earn exemptions toward professional designations such as CAPIC, CIM and PMAC.

Industrial Management — a challenging opportunity to develop and apply your leadership abilities now and for your future.

Business

Making new start

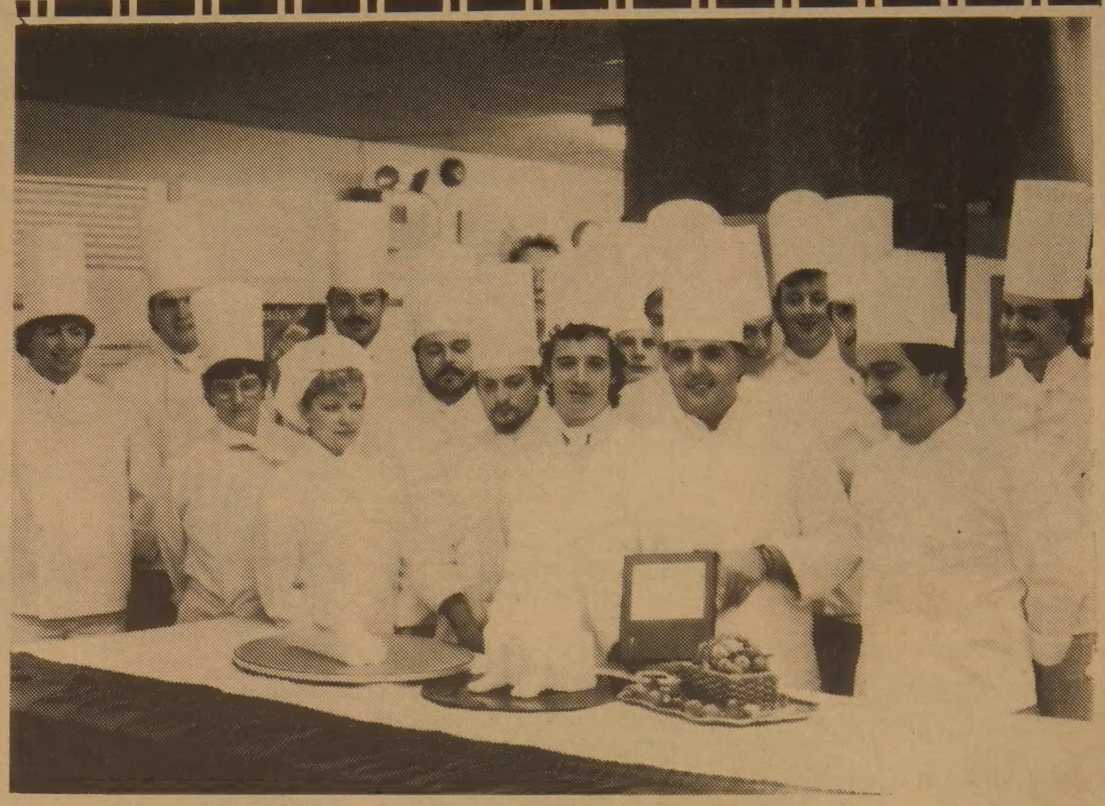
Adults of any age who are interested in "picking up where they left off" in their education are welcome to enroll in the academic upgrading program. This is a preparatory program of studies in English, Mathematics and Science corresponding to grades 7 through 12 in three levels. A rather non-conventional approach of continuous intake and continuous graduation has been proven to be very convenient for participants. Every Monday of the year, new students enter the program, remain until their course of studies is completed and then graduate.

There is a certain degree of flexibility in each of the subject areas that is determined by the student's previous educational background, occupational goals and employment objectives. Before entry into the program, a placement test is administered to determine the candidate's entry level in the various subjects. This placement test diagnoses the strengths and weaknesses of the student. Consequently, it becomes unnnecessary to study material that is already known. Emphasis is placed on learning new material or material that may have been forgotten over the years. The student then progresses smoothly through the various modules of study that are relevant to his employment objectives. This approach successfully recognizes the fact that a person working in the health care field needs a different educational background than a person in a technical trade.

Graduates of academic upgrading are prepared for entry into many skill training programs such as welder fitter, machinist, toolmaker pre-apprentice, industrial maintenance mechanic and so on. Other graduates prepare themselves for business industry, health care or direct entry into the job market. In addition, many continue their studies by entering various post-secondary programs.

Instruction in the classroom is individualized and self-paced. A maximum class size of 20 ensures that experienced professional attention is constantly available on an individualized basis in both classroom and laboratory learning situations.

There are a number of financial programs which give assistance to the academic upgrading student. Most are sponsored by a Canada Employment and Immigration Centre, some are funded directly by a community agency, and others obtain financial help from the Ontario Student Assistance Program or pay their own fees.



Satisfying employment, career advancement for cooks

Students in food service industry will have many job opportunities

Looking for a career in the food services industry? Canada's hospitality industry is experiencing rapid growth and needs qualified, trained workers. Food Service occupations are currently in great demand, especially cooks and food preparation assistants. The prospects of satisfying employment and career advancement-employment and career advancement in these occupations have never been better.

APPRENTICESHIP TRAINING

Apprenticeship is one of the oldest routes to acquire vocational education and occupational training. It brings together the realistic and practical training of the work place with related classroom instruction in a partnership designed to develop fully qualified journeymen to meet the skill needs of our communities. In Ontario, apprenticeship training programs are expanding into new occupations and industries to meet the demand for workers with skills required by the province's growing industrial and service base.

The Cook Apprenticeship Program is offered by the Skills Development Division of the Ministry of Colleges and Universities through Niagara College of Applied Arts and Technology. The Cook Apprenticeship Program is 6,000 hours or three years in duration, to which Niagara College provides 900 hours of instruction. Apprenticeship Programs are employer-based and an employer-sponsor is required for every apprentice enrolled in this trade.

Participants in the program agree to enrol themselves for three years in the program and to remain with the employer for the same period.

Apprentice Cooks attend Niagara College for a 15-week advanced training program — a total of 900 hours. The balance of the apprenticeship period (5,100 hours) is spent working in the employer's establishment as a salaried trainee.

Financial assistance may be available to you while you are attending college. Your tuition fees may be paid on your behalf and/or you may receive a living allowance. At the completion of the apprenticeship period, apprentices are eligible to write the provincial examination for a Certificate of Qualification for the trade of Cook.

ADULT TRAINING PROGRAMS

Niagara College offers three programs to provide training to meet the increasing demand for trained personnel in the food services industry. Students entering the Adult Training programs must be at least 17 years of age and out of the regular school system no less than one year or have the Ontario Secondary School Graduation Diploma or equivalent. Students may be registered in Adult Training programs according to two enrolment methods:

1. **Sponsored Students.** Canada Employment and Immigration Commission sponsors students enrolled through the Canada Manpower Training Program. As well, agencies, including the Workmen's Compensation Board and the Ministry of Community and Social Services, sponsor clients to the Adult Training programs.

2. **Fee-Paying Students.** Full-time tuition fees are established by the Government of Ontario.

FOOD, BEVERAGE SERVICE

The program has been designed to teach the student the necessary skills to serve food and beverages in a professional manner. The students will receive practical experience in various forms of dining room service and also in the mixing and serving of alcoholic beverages by assisting in the Hospitality Program Dining Room. Field Placement in various dining rooms in the Niagara Region is a mandatory component of this program.

The program's emphasis is on the practical knowledge of basic food preparation. Training covers breakfast foods, sandwiches, soups, salads and dressing, and dishes from farinaceous products. The preparation of potato dishes, meat and fish dishes is supplemented by the creation of baked goods and desserts and non-alcoholic beverages. A theoretical portion of the programs instructs the student in safety, sanitation and hygiene, weighing and measuring techniques and devices, basic kitchen terms, food storage, waiting on tables, and the duties of a cashier.

As in the Basic Food Preparation program, 70 per cent of this program is of a practical nature. Working from the simple menus of Basic Food Preparation, students progress to specialty and fancy dishes. Preparation of menus, supervision in a kitchen, and the setup and service of buffets complete the program. The importance of safety, sanitation and hygiene are emphasized.

Math skills important

In the first year, it is our aim to create an awareness of the significance of numbers in business communications. We want you to be able to communicate clearly and accurately in mathematical terms and to provide you with a functional ability in a range of relevant topics. In order to do so, we review, where necessary, basic skills in arithmetic and algebra and then expose you to a variety of mathematical methods which are basic to any business operation. Practical applications are tailored to your area of specialization where possible. Emphasis is placed on the effective use of a calculator in problem-solving and decision-making.

This solid background in general mathematical procedures for business is essential for subsequent courses in statistics. The use of statistical analysis in business has become increasingly common and is used to evaluate sales, cash management, inventory, marketing, credit and financing, imports and exports, budgets, etc.

Rapid technological advances in this area in the form of computer usage, allow us to introduce you to common business techniques. You will learn how statistical data should be handled and analyzed and how the results can be used in decision-making. We stress the selection of data and the interpretation of quantitative information. Anyone interested in a business career will improve their chances for success by being able to properly collect and analyze statistical data.

Co-op jobs let pupils see world

TOURISM is a leading industry now and tomorrow.

The Tourism industry plays a vital role in Canada's economy.

Tourism is an $18 billion a year industry and it employs more than 600,000 Canadians directly.

In Canada, tourism ranks as the second largest industry in most provinces and territories.

Tourism is BIG BUSINESS for Canada and it can man a very interesting and rewarding career for YOU.

At Niagara College, we offer two programs, one in English only, TOURISM — TOURS AND ATTRACTIONS, and one bilingual, TOURISME — CIRCUITS ET ATTRAITS TOURISTIQUES. Both are 2 years in duration and both are co-operative, which means they will give you the unique opportunity to work in the tourism field before you graduate. Co-op means that you will need to complete, before graduation, 2 sessions of 16 weeks each in a job directly related to tourism.

"No single industry in Canada has greater potential for new job creation than does tourism. Employment in the field is expected to grow at more than five per cent a year in this decade and even faster in the 1990s," T. McMillan, minister of tourism, said.

You could work for a tour wholesaler, for an attraction, for travel services for the accommodation or transportation industry, for private sector associations or for the government sector. Your job could be in Canada or anywhere in the world.

A career in TOURISM can be rewarding as long as you are ready and willing to work hard at it. Canada and the industry are in great need of people that are innovative and ready to promote tourism in a dynamic way. The challenge is enormous, but you can succeed.

"We (the tourism industry) need only the will to excel to make it happen," Mr. McMillan said.

Work in lawyer's office

The legal assistant program has graduate job placement of 100 per cent. In fact, there are more employers than available graduates. Legal Assistants do the work of a lawyer under the supervision of a lawyer in legal subject areas where a lawyer's expertise is not necessary.

Legal Assistants, also known as Law Clerks or Paralegals, often work away from the law office providing, obtaining and recording information.

This two-year program has a co-op component so that in fact students spend only one and a half years in total at the college and eight months working for a lawyer. The co-op job market also has more employers seeking co-op legal assistant students than there are qualified students available.

This demand for students will continue as the occupation continues to grow and is one of the fastest growing occupations in North America.

Student Services To serve YOU

Soup's on!

Media Services for staff and students

Business

Co-op, New York trip explore retail world

Retailing, the largest industry in Canada and growing every day, needs young adults like you. An exciting, challenging career with lifelong development and promotional possibilities awaits the individual who wants to be a success. Niagara College, with the help of major retail executives, has implemented a two-year specialty program in Retail Management to prepare you for a future position of leadership in the wonderful world of retailing. The selection of courses has been expecially designed to fit into today's requirements of store operations. They include buying, sales, advertising, personnel, display, and other relative and current topics.

One of the key factors to the program's popularity and successful job placement record is the co-operative concept. Upon graduation, the student will have had six months of practical hands-on experience from working with executives in at least three well recognized retail firms. This valuable experience is acquired with remuneration for the work provided and is an excellent source of income for the college student. Stores like Sears, Eatons, Robinsons, K-Mart, Woolco, and Towers participate in preparing the students for a career in retail management. Shopping Centres like The Pen, Niagara Square, Skylon Tower and Maple Leaf Village also word closely with the college staff in assisting the students on their way up the ladder of success.

The program itself embraces a wide range of activities related to the realities of the retail trade. Research projects put the student into direct contact with retailers in the Niagara Peninsula. This enables them to obtain first-hand knowledge about the retailing world by talking with the experts on the job. Individual and group work on realistic case studies and simulated management problems are also included in the curriculum. Senior retail managers often appear as guest speakers and lead discussion periods on various aspects of the trade and personal qualification and requirements for a successful career. A student Retail Management club provides and exciting agenda of off campus activities including a trip to New York to visit some of the largest retail stores in the world.

The program offers excitement, challenge, growth development and potential, new friends and unlimited future career possibilities for the student who wishes to apply him or herself. Sure, it takes hard work and dedication, but when you have instructors wanting to help you, a program designed by the retail industry for the retail industry and experienced executives on your side, then you can do it.

Don't hesitate — go for it — be the person you want to be — in Retail Management.

Come to Niagara

Higher education at lower cost

Going away from home to continue one's education may be part of maturing. . . but it can be expensive. And one of the early objectives of establishing community-based colleges was to help students obtain education beyond high school which was within their financial reach.

The legislation setting up the colleges did not prevent students from exploring other parts of the province for their education as attractive programs began appearing at all of the 22 colleges. But today the cost of living away from home may well be a limiting factor.

The overall state of the economy and the persistent high level of unemployment are major considerations for students and their families planning how best to prepare for the future.

The popularity of many Applied Arts programs at Niagara College may well be the answer to the nagging questions of cost and unemployment. Students are able to live at home in any part of the peninsula, maintain part-time and weekend employment and still complete their studies.

Colleges, with a few exceptions in the North, do not have residences or the social, community-style living arrangements which university students can enjoy. A college student with a family connection in another community may well be able to manage, but, for the most part, it is through having to rely on room and board in the community. The cost of an apartment in some communities is higher than an average student can afford, even when two and three share the cost. What about eating out? Entertainment?

Niagara College is your community college. It is "home" to a number of excellent programs to serve your needs. Explore Niagara College first; those far away pastures may not be greener.

Learn language skills

What is the secret to getting and keeping a job today? Why do some people move steadily up the promotional ladder while others, with equal technical skills, languish in a dead-end job? The answer, if you listen to those managers and personnel officers whose job it is to know, is that the key to the most desirable positions in management and industry is competent language skills. The ability to convey information and ideas clearly, concisely and effectively in reports and memos, that special knack of knowing how to relate well with other people in the workplace, the ability to read pages of written material quickly and to extract from them the key points — these are all characteristics of advanced language skills. They are, too, some of the skills that the English program at Niagara College is designed to teach.

Unlike some colleges where the English program has been reduced in recent years, Niagara College's English program is a totally comprehensive one. English courses whhich cover the spectrum from basic writing skills to literature, technical and business correspondence to public speaking, communications theory to effective reading are available to most students at some point in their English program. Class sizes are generally small, discussion rather than lecturing is the preferred teaching method, and instructors are readily available to students for individual consultation. For those who are still having difficulty with basic writing skills, very small tutorial classes are available. Since a close relationship is maintained between English instructors and vocational instructors, English at Niagara is a practical experience in the application of communication techniques to the world of work.

The English electives may have just the course for you. Students have the opportunity to choose from a wide range of elective courses in the second year of their program.

The English Department is also involved in developing and upgrading computer assisted instruction (C.A.I.) to better meet the needs of all students. Programs which are self-paced and adaptable to individual student needs are available to correct specific writing problems.

OSAP may have $$$ for YOU

By ELAINE SPARK
Financial Aid Officer

The experience of post-secondary education can be a very exciting one. This time can also be one of great concern to you if you are faced with financial concerns. To assist you with meeting educational expenses the Ontario Student Assistance Program (OSAP) is available to Ontario residents who qualify for assistance. This assistance is awarded to "...supplement but not to replace your own financial contribution toward the cost of your education."

The Ministry of Colleges and Universities Awards Branch determines your "Allowable Educational Costs." This includes the cost of your fees, books, personal and living allowance and travel. The personal and living allowance cost is based on whether you live at home or away from home. An average assessment of educational costs for one year at Niagara College for a "Group A" student would be: student at home — $2,020.00; student away from home $4,500.00.

Once costs are assessed, "Calculate Resources" are computed to determine what you and your family can contribute towards these costs. This is processed from the information you provide on your application. You *will* initially be assessed to determine if you qualify for an Ontario Study Grant — (Provincial); this is not repayable. If you qualify and require additional funds, you will be assessed for a Canada Student Loan — (Federal) to the allowable maximum and then the Ontario Student Loan — (Provincial).

OSAP applications are available in the Financial Aid Office April 1. This kit provides a great deal of information on this program. Take time to read the information carefully. Accuracy is vital.

Health care team seeks new members

Caring Persons to Work With the Elderly:

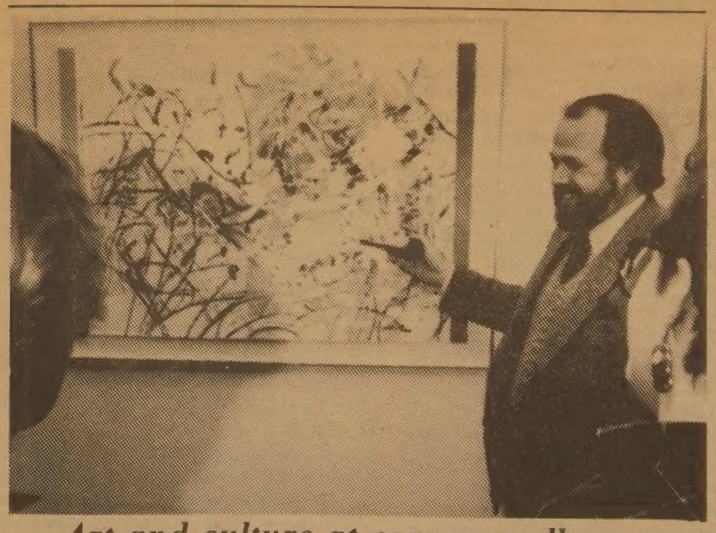
If you are a caring, reliable person interested in working with the elderly and handicapped and would like to be a member of the health care team, submit your name to a College or CEIC Counsellor.

The Health Care Aide program is four months long. Three programs are scheduled yearly. The graduate provides:

— basic personal care promoting physical and emotional comfort
— assistance to residents with their activities of daily living
— assistance in the activation program to keep the residents mobile

Employment opportunities are in Nursing Homes, Homes for the Aged and Community Agencies.

Working with elderly and handicapped



Art and culture at campus gallery

Niagara College Jazz Band

Interested in playing Jazz? If your answer is yes, then Niagara College of Applied Arts and Technology, Continuing Education Services has the course for you. The "Jazz Band" is a 30 hour/10 week part-time course offered during our Fall and Winter Terms. This course provides its members with an opportunity to study and play the sounds of Jazz and the Big Bands. The Jazz Band has attracted many talented musicians from the Niagara area and beyond, whose ages range from sixteen to sixty years. The Band has just released its first record, On the Move. You too could be part of this successful group! Simply give us a call at Ext. 510 to find out more about the jazz Band.

On-going Orderly training

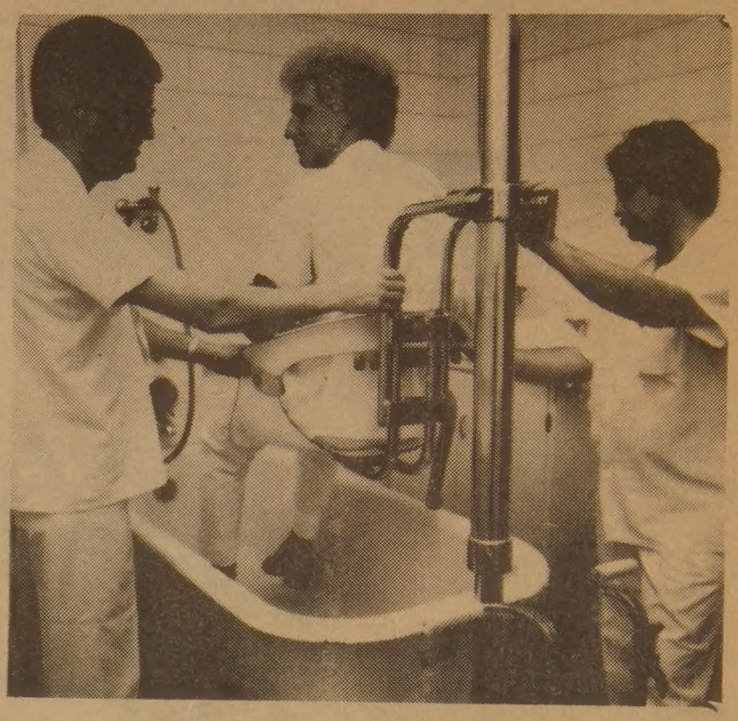
If you are a male, who is a mature, caring person, and would like to become a member of the Health Care team, ask your College or CEIC Counsellor to submit your name.

Two programs are scheduled yearly, each of five months duration. At the completion of the program, the graduate will be able to:

— assist with selected basic nursing care to male patients
— assist with lifting and transferring patients safely
— assemble and adjust traction
— meet the basic physical and psycological needs of patients under the supervision of the Registered Nurse.
— communicate effectively

Employment opportunities are in hospitals, nursing homes, homes for the aged and Community Services.

Niagara College is the only college in Ontario that has the Hospital Orderly programs scheduled on an on-going basis. The program started in 1968 with students coming from all parts of Ontario.



Testing the waters

Health Sciences

Active role in patient care

NC Health Records programs provide vital communications

Information and its communication are vital to the delivery of quality health care. The health information system which supports the health care system requires the services of trained professionals and Niagara College offers that training through its Dicta-Typist, Health Records and Health Record Technician programs.

The Dicta-Typist in the Health Records Department of the hospital is a medical transcriptionist who is responsible for the transcription of physician-dictated reports which make up the clinical record of a patient. The clinical record is used for continuing care of the patient and is the means by which the doctor communicates with the other health care professionals who share the responsibility for that patient. These records will be the history, report of physical examination, progress notes, diagnostic and surgical reports, pathological and consultation reports, and others. The transcriptionist must work accurately and efficiently so that the communication between doctor and his team will be completed as quickly as possible. This career gives the Dicta-Typist, Health Records a very active role in the care of the individual patient.

The Health Record Technician is a specialist in health information systems, working closely with all the health care professionals and the hospital administration to ensure the delivery of the best possible care. The management and operation of the health information system requires certain technical and analytical skills which allow the clinical data to be used for continuing care, research and education. This is a professional career full of challenge and with a variety of specialty opportunities for the future.

A feature of these programs at Niagara is that progression from the one-year Dicta-Typist program to the second year of the two-year Health Record Technician program is possible, providing upward career mobility if desired. Further career progression to the senior management level in the professional college may then be possible through post-graduate studies.

If you are looking for a career in a medical environment that offers a challenging future in an age of advancing technology, these programs may fill the bill. Contact Niagara College, Allied Health and Preschool Education Division of the School of Applied Arts and Health Sciences, for an interview appointment.

Minding the children

Dealing with tots easy at Niagara

Working with children has many rewards. A teacher can observe the growth and development of the children in her class and know she has influenced those children. Our goal for the Early Childhood Education program at Niagara College is to help students to better understand how young children think and behave and to provide them with the opportunity to learn skills for dealing with these youngsters. Courses in psychology, child development and sociology help students to understand children and their parents. Specialist subjects such as preschool methods, science methods and child research help students acquire the skills necessary to teach young children. This two year program provides practical experience with children aged three months to six years, where students use the knowledge and skills they are acquiring. The practical experience is gained in a demonstration school on campus and in a variety of settings in the surrounding community, ranging from regional and private centres to junior and senior kindergartens. We also provide experience with infants and special needs children in full day and half day care. The staff in our demonstration centre are all highly trained graduates from this program.

In French

Parlez vous francais? If you are bilingual and would like to pursue your career in both English and French, we offer Education des Petits in a bilingual format. This program offers the same courses and skills as does the English program but has some subjects taught in English and some in French. The demonstration school even offers a bilingual children's program to provide practice for the students. Graduates from Education des Petits can work in English or bilingual centres.

Students who wish to go on to Brock University to work towards their BA/BEd degree in Child Studies, may receive advanced standing after completing the four terms in the Early Childhood Education program at Niagara College.

Our Early Childhood Education program or Education des Petits, prepares students for a fulfilling career working with young children in a variety of settings. The faculty and staff are anxious to have you join them in this course of study.

College offers French in some programs

French is offered in some full-time day programs and is burgeoning in continuing education at Niagara, one of six bilingual community colleges in Ontario.

Bilingual Secretary, Early Childhood Education and Tourism are taught in French which is also available to full-time day students in other programs.

In continuing education, French programs have grown from four levels to nine and from 60 to 387 students since 1982.

Students who graduate from the ninth level are fluent for most situations.

They can adapt easily in a French community but it would probably take a little longer for them to fit into an employment situation.

There are two programs: French as a Second Language which uses Francais International textbooks, and French Mother Tongue, which is mainly for students from a French background.

Health Sciences

Preventive measures save teeth

Dental Hygienists are integral to good oral health education

Today an integral part of dentistry is "prevention" which emphasizes the preservation, restoration, and maintenance of the oral health of the individual.

As a dental hygienist you will be an oral health educator and clinical operator who, as an auxiliary to the dentist, uses scientific methods for the control and prevention of oral diseases to aid individuals and groups in attaining and maintaining optimum dental health.

If you are interested in health sciences pertaining to the dental profession, have good communication and organizational skills, manual dexterity, an ability to handle responsibility, and pay close attention to detail, Dental Hygiene may be for you.

An individual applying for Dental Hygiene must be a graduate of a community college Dental Assistant Program and/or be a Certified Dental Assistant with a minimum of one year's work experience as a Dental Assistant. Additional admission requirements may be obtained from your guidance counsellor.

Advanced training in theoretical knowledge and intra-oral procedures is provided by dental professionals within and outside the College. Dental Hygiene students apply their knowledge and skills in the Niagara College Dental Clinic where individuals from the community seek dental care. Also, during the three terms students participate in dental health education related to groups outside the college.

Graduates can be licensed to practise as Dental Hygienists in the Province of Ontario, if they successfully complete this program and any examination and/or requirements established by the Royal College of Dental Surgeons.

Dental Hygiene Clinic

Wanted:

Individuals from the community to offer their time as patients in the College's supervised Dental Hygiene Clinic.

Hours:

The clinic operates morning and afternoon clinics Monday through Friday from 8:30 a.m. to 12:00 noon and 1:00 p.m. to 4:30 p.m.

Fees:

There are no fees charged for the services provided in the Hygiene Clinic. The clinics are provided for students to enhance and develop their clinical skills.

Services Available:

Dental Hygiene Clinics — A licensed dentist and 14 licensed dental hygienists supervise dental hygiene students performing duties such as X-rays, examinations, cleanings, fluoride treatments, and impressions for mouthguards. Patients under the age of 18 will be treated from October to December 1985 and adults 18 or over will be treated from January to June 1986. There will be no fees for services rendered.

For further information please contact Mrs. M.C. Gauvreau, Clinical Technician, at one of the following toll free numbers: Welland, 735-2211; St. Catharines, 688-1380; Niagara Falls, 384-9760 and Fort Erie, 382-2383, Extension 758.

Health Sciences

Caring for people of all ages

Open wide!

Exciting practical training

Taught in hospital, fire dept.

During the two terms of the Ambulance and Emergency Care program, the student learns how to administer emergency care to victims of injury or illness and to provide safe and effective transportation to hospital.

Learning takes place through classroom lectures and demonstrations, presentations by ambulance personnel and other guest lecturers, simulated casualties and clinical practice.

Students learn to respond to emergencies ranging from gunshot wounds and severe burns, to childbirth and how to administer care in a moving vehicle.

Other classroom activities include instruction in cardiopulmonary resuscitation and other basic life support skills.

During the academic year, students participate in patient care in local hospitals. They spend time in Emergency, Intensive Care, Labour, Delivery, and Recovery Rooms and the Operating Room. This placement in amulance services and general hospital speciality area settings supports and reinforces the content and skills learned in all other courses of the program. An equal amount of time is spent in actual ambulance service, first as an observer then gradually assuming field responsibility. It is here that the student learns the reality of this career in all kinds of weather and under all kinds of conditions, working on all three shifts.

Basic skills

Students work with local fire departments learning basic extrication techniques and high level rescue skills. A display designed to educate the public about first aid skills and the role of the ambulance officer is presented by the students in the second term.

Applicants must be mature, and should have experience as a volunteer health worker or a member of the First Aid Brigade. Leadership ability, physical fitness, and an ability to communicate effectively with the public are essential attributes. Lifeguard, Ski Patrol, or First Aider experience would be an added asset.

The primary source of employment will be in ambulance services throughout Ontario.

Applicants must have an Ontario Secondary School Graduation Diploma or equivalent. Also, two sciences at the senior level, preferably chemistry and biology, are required. Mature students will be considered on an individual basis. Prior to admission the applicant must submit an information sheet, possess a Class "F" Driver's Licence (Ontario), a standard First Aid Certificate and a certificate as a Basic Rescuer in Cardiopulmonary Resuscitation (CPR) issued by the Canadian Heart Foundation.

Opportunities galore for DA graduates

The Dental Assistant can find employment in private dental practices, group practices, institutions and in public health.

This program will appeal to students who are meticulous and have excellent manual dexterity combined with an interest in health sciences.

The responsibilities of a dental assistant include many business office skills, as well as assisting the dentist at chairside by mixing materials and transferring instruments. Most offices also expect the dental assistant to have some expertise in laboratory procedures such as fabrication of custom trays and pouring plaster models.

Excellent communication skills are necessary to deal with patient/clients who attend the office.

In order to run a busy practice, the dental assistant must also have good organizational skills, and an ability to work in confined spaces.

Certification by the Ontario Dental Nurses and Assistants Association is available to students who graduate from a community college dental assistant program.

If you have above average marks in English and Sciences, and an OSSG Diploma, you may be eligible to enter this interesting and demanding program.

English electives: multiple choices

Do you enjoy Canadian fiction?

Are you a movie buff?

Do you wish you could read faster and better?

Are you terrified when you have to give a speech?

The English electives may have just the course for you. All Applied Arts students have the opportunity to choose from a wide range of elective courses in the second year of their program.

Canadian Literature, The Film, Effective Reading, Public Speaking, these are some of the offerings available. Other courses include Children's Literature, Detective Fiction, and Effective Interpersonal Communications.

Practical medical experience gained by Nursing students

Students in the nursing program at Niagara College become involved in real life nursing situations in the community and a variety of community health care agencies. Students are provided with experiences in all the general areas of nursing: medical, surgical, geriatrics, pediatric, psychiatric and obstetrics.

The nursing program is an intense three year program comprising six terms of theory and practice. It is based upon the Standards of Nursing Practice for the province of Ontario, and a conceptual model of nursing which give direction to the curriculum.

Graduates of the program are eligible to write the Registered Nurse examinations and to accept positions in hospitals and other health care agencies across Canada and the United States.

Our faculty are experts in nursing and education and have the caring quality required for both.

So if you are a caring person who wishes to be a care giver apply to the program that cares!

Technology

Plants, technology go together in Horticulture

Photo by Russ Murray

Offers variety

DR. TONY KNOWLES

The School of Applied Science and Technology is pleased to have this opportunity to present information on the programs that will be offered during the 1986/87 academic year.

There are a wide variety of career training opportunities through programs designed to produce graduates who can work effectively in the current and future technological environments. Each program has an active Advisory Committee formed from area industrial representatives who assist college personnel in ensuring that program objectives are relevant to the future requirements of industry. The training is designed to provide graduates with the necessary skills to enter the work force; and, more importantly, graduates acquire the background that will allow them to shift into new job directions as technology changes.

The faculty have considerable industrial experience, thus ensuring that students receive instruction in relevant skills. A broad range of state-of-the-art equipment and machines is used to provide the practical hands-on training which is an integral part of all programs within the school. Visits to industrial installations supplement the programs, thereby providing an insight into the specific application of the knowledge and skill gained in the classroom.

We are proud of the programs being offered within the School of Applied Science and Technology and the years of excellent placement results for our graduates. I urge you to take a few minutes to review the various program offerings and to contact Niagara College if you would like to obtain further information and/or visit our facilities.

I would like to take this opportunity to wish you every success in your current studies and whatever career path you may choose to follow in the future.

Dr. Tony Knowles,
Dean,
School of Applied Science
and Technology.

Stimulating conversation leads to better English

A convergence of people from many lands into a classroom is a perfect catalyst for stimulating conversation. This is exactly what happens in the English As a Second Language (E.A.S.L.) class. People from all walks of life and from countries as far away as Hungary, Poland, Thailand, Cambodia, Vietnam and Hong Kong find themselves in a common setting with a common goal of learning English.

For the new Canadians it is difficult at first, but as they make progress through the course and learn the language, they become more confident in themselves in their new country. The E.A.S.L. program consists of reading, writing, conversation and a Canadiana component. Instruction is provided through various means including helpful language labs.

Hort graduates go to busy industry

Horticulture employs more people in Ontario than any other industry. Opportunities can be found in the following areas:

Greenhouse production
Nursery production
Landscape design
Landscape construction
Floral retailing and design
Turf maintenance: parks, playgrounds, golf courses
Garden centre operation
Fruit and vegetable production
Arboriculture: care and maintenance of trees in urban areas
Tobacco production
Horticultural supplies: fertilizers, equipment, pesticides, etc.
Therapeutic horticulture for the disabled
Horticultural research: tissue, culture, plant genetics, hardiness trials

Over the past 15 years, Niagara College has offered a two-year (four-term) in-depth Horticultural Technician Program to students from across Canada. Student job placement has been excellent. The Horticultural Technician Program is located on a 30-acre park site in the heart of St. Catharines. Interested applicants should contact J. P. Mansfield, Program Coordinator, Horticultural Centre, 360 Niagara Street North, St. Catharines, Ontario L2M 4W1, or telephone 416-934-4071.

Get ready!

Basic Job Readiness Training (B.J.R.T.) is a 12 week Math and English refresher with job related life skills. Interest assessment and suitability for local employment are emphasized. Information about education and training is available to men and women over 17 years of age. Classes begin in April and September. Sponsorship is available through Canada Employment Centre. For brochure and more information, please call Valley Wood Centre at 685-8488.

Robotics lend helping hand

Be a part of the Manufacturing Revolution. Join the growing number of young dynamic indivduals who are controlling and becoming part of the robotic and computer controlled factories of the future.

The Manufacturing Engineering Program at Niagara College can help you attain your goals in life by teaching you the latest technology in our Robotics Laboratory, Computer Numerical Control (CNC) Laboratory, Computer Aided Design (CAD) Laboratory in addition to our Materials Science and Testing and Precision Measurement Laboratories. We have a dynamic Advisory Committee made up of industry leaders in the area that keep our Program on course with the requirement of industry today.

Join us and help secure your place in industry.

The program is a four sememster (term) Certificate Program.

Applicants should possess a Secondary School Graduation Diploma and preferably have taken level four Math in addition to Physics or Chemistry.

Women in technology

This 18 week program is designed to interest women in the technological opportunities of today. Math and English refresher, interest testing and shop experiences assist with making suitable career choices. Machining, Welding, Carpentry, Electricity and Auto are included. Assertiveness and confidence building make up an important part of this program. Work experience provides valuable information for each student. Classes begin in April, August and November. For a brochure and further information, please call Valley Wood Centre at 685-8488.

For displaced workers

This program offers up to 20 weeks of non-academic job analysis and on-the-job experience for persons who are out of work due to injury, plant closure or relocation. Supportive group discussions led by specialist staff, encourage identification of transferable skills. Person having a lack of formal education or English as a second language will be comforable in this setting. Reentry to the work force is assisted by several weeks of work placements. Individuals may be agency sponsored or attend by payng a fee. For a brochure and further information please call Valley Wood Centre at 685-8488.

Clearer Native futures

During 20 weeks the "Natives in Transition" Program informs people of Native ancestry about future education and training while enforcing cultural identity. English and Math refresher courses are included, along with traditional teaching. Career explorations and computer basics are available. Native staff members provide understanding support. Sponsorship is available through your local Canada Employment Centre. For a brochure and more information, please call Valley Wood Centre at 685-8488.

Technology

Why not YOU in technology?

Much has been written about modern technology. Along with the publicity of each new advance, we often read of ways in which technology has been abused and adversely affected mankind. Other articles focus on the high costs associated with modern technology, with the writer often questioning the justification for large expenditures. In all, technology has a bad press. So why should you or anyone bother taking an interest in, or even pursue a career in technology?

We need to keep the negative comments in perspective. Man is an inquisitive animal, and once that first mousetrap had been built, everyone had to try and improve the design. (Besides, was the mousetrap a benefit for the mouse?!) It would seem that our care and attention needs to have a dual focus. First, we need to develop new technologies and new ideas. The second focus is one where we have often not put in a good effort. This is in the area of how we apply the new technological developments. If we accept this position, then those of us who make up the technical and scientific community, and that includes future technicians and technologists, must become caretakers of their developments and help ensure developments are directed for the benefit of mankind.

Niagara College has the tradition of offering first class programs in several areas of technology. Not only do our programs give students the technical knowledge and skills necessary, but our focus is upon how the technology can be applied. The Chemical/Computer/Electrical/Electronic Division has a total of seven programs. Look at these programs and discover how each offers you worthwhile career opportunities. There is much that is good happening in technology — be a part of it!

ADMISSION REQUIREMENTS

1. Ontario Secondary School Graduation Diploma or Equivalent.
2. For the TECHNICIAN programs.
   Grade 12 English and Maths are necessary for admission.
   Applicants with these subjects at the Grade 12 advanced level will have an advantage.
3. For the TECHNOLOGY programs.
   Applicants must have Grade 12 English, Maths and Physics. Those who have Chemistry, Maths and Physics at the advanced level will find themselves well prepared for the programs.

COMPUTER, ELECTRICAL AND ELECTRONICS PROGRAMS

Opportunities unlimited would be an accurate sub-title for the possible career paths open to those enrolled in these areas.

Technological advances of the last few years would appear to have been taken straight out of a sci-fi book. Recently, many industrial leaders have suggested we may be facing a period of consolidation. For the technician and technologist this would be ideal, for a period of consolidation would normally see the latest technology applied to a variety of practical uses. And this situation is exactly where we need the knowledge and skills of the technician and technologist. People with these qualifications are vital if we are to successfully translate the latest technical developments into useful practical applications.

TWO-YEAR PROGRAMS ELECTRICAL ENGINEERING TECHNICIAN

This program provides students with diagnostic and application skills for electrical machines, power systems and electrical design. The Electrical Engineering Technician entering the field of industrial maintenance and testing will be confronted with the challenges of electronic control of equipment in the automated industries. The demand for Electrical Technicians with electronic training in Solid State systems and microprocessors is increasing rapidly.

ELECTRONICS ENGINEERING TECHNICIAN

Electronics Engineering Technicians occupy a key position between the engineer or technologist and the tradesman. They are responsible for the repair, overhaul and troubleshooting of complex equipment and installations. The content of the program is extensively system-oriented, with typical electronic systems selected from the areas of televisions, computers, automatic control and communications.

WHAT ABOUT JOBS?

Both programs offer a wide range of job opportunities including: Maintenance, sales, service, calibration, research, installation and product improvement with manufacturing, government, commercial and industrial electrical and electronics firms. Instrumentation and biomedical electronics and work in the area of radar defence lines also provide potential sources of employment.

THREE YEAR PROGRAMS

Niagara College offers Computer, Electrical and Electronics Engineering Technology programs. But, suppose you cannot decide which option is the one for you? Relax! At Niagara, students in all three options take the same courses for the first three terms. Specialization begins in Term 4, and continues through Terms 5 and 6.

COMPUTER ENGINEERING TECHNOLOGY

Today's computer industry is one of the fastest expanding fields with future expansion expected to continue at an ever-increasing rate. To prepare graduates for rewarding careers in this field, the Computer Engineering Technology program covers all aspects of the computer industry. Emphasis is placed on microcomputer design, construction, programming and troubleshooting in industrial control and product-design applications. Both hardware and software aspects are studied using state-of-the-art computers and microcomputers.

POWER SYSTEMS

1. Niagara College is one of few colleges in Ontario offering the Electrical Engineering Technology (Power Systems) program.
2. Program objectives are all based on an acute awareness of the importance of electrical power in our society. The industry depends on very large and extremely costly pieces of equipment often controlled by inexpensive small components. The margin for error is almost non-existent and great dependence therefore is placed on responsible and highly competent personnel.
3. Specialized courses emphasize modern electronic control and computer applications in electrical power systems.

ELECTRONICS ENGINEERING TECHNOLOGY

This three year program is designed to develop in the student an understanding of electronics and electrical principles, a working knowledge of the various devices and circuits used and some system design skills with their application to the various fields such as communications systems, computer applications, industrial control systems and entertainment. The objective is to graduate an Electronics Engineering Technologist who has technical knowledge and design skills in electronic communication systems, automatic electronic control systems and computer technology.

JOB OPPORTUNITIES

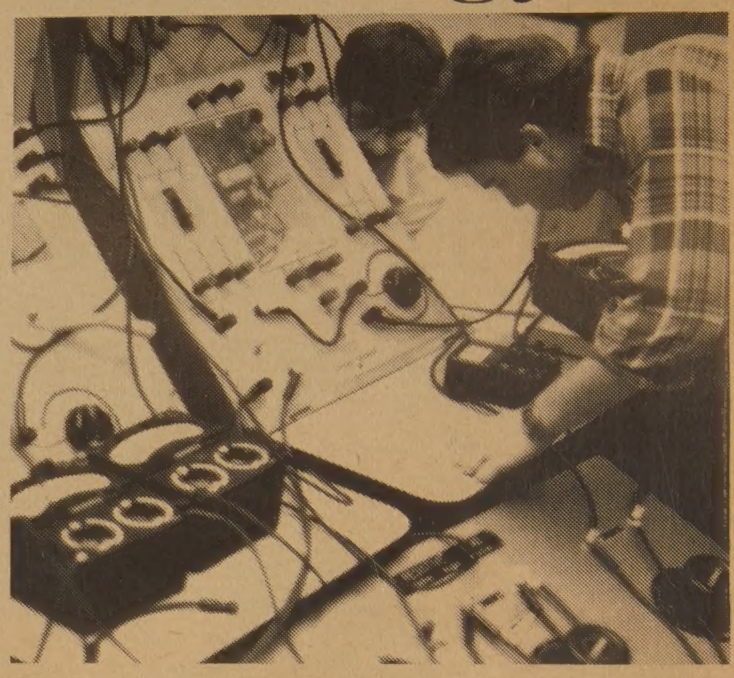
COMPUTER

Graduates find employment in a wide range of industries, assisting in the design, programming, construction and troubleshooting of digital and computer-based equipment. Opportunities exist with computer manufacturers, high-technology companies that manufacture microcomputer-based equipment, and industries using computers for process control application. Job placement in this course is one of the highest in the college system.

ELECTRICAL

Because of the extreme importance of electrical power as a source of energy, long-term placement potential for graduates of this program is very high. Students will be trained to carry out assignments with great care and minimum supervision. As graduates, they may be employed in design-engineering production, research, technical sales, installation and maintenance. Typical employers are original equipment manufacturers, industrial plants, hydro and nuclear generating stations, public utilities, consulting engineering firms, and contractors.

Typical duties could include analysis of electrical circuits and systems, all types of electrical calculations, participation in designing, manufacturing, testing, installing and maintaining a variety of electrical equipment, evaluation and/or preparation of assignments, processes equipment specifications and technical reports and composing some computer programs.



Putting it together in technology

ELECTRONICS

Job opportunities exist in design and development, sales, maintenance, installation and servicing of a variety of components and equipment in various fields. Typical employers are engineering or electronics firms, primary industries and government and educational institutions.

TECHNICIAN OR TECHNOLOGIST

One characteristic of technicians and technologists is their aptitude in math and sciences. Linked with this, is the desire to put their knowledge and skills to practical use. Does this describe you? Could you become a technician or technologist? If you are a person who has an interest in building, modifying and repairing equipment, then you should consider the opportunities available. The technician and technologist possess knowledge, are able to think in a logical manner and possess good manual dexterity. People with these characteristics are in demand in a wide variety of job opportunities in many different industries.

WHAT IS THE DIFFERENCE

At college, the obvious difference is that the technician program lasts two years (4terms), while the technology program is of three years (6 terms) duration.

Once the person has graduated and working, we find there is a difference in the type of work done by the technician and technologist. Employers will generally give the technician work that emphasizes their hands-on practical skills.

In contrast, the work given technologists will often involve the need to plan and develop an analysis of what is needed, before any practical work is carried out.

CHEMICAL PROGRAMS

The chemical programs: Two year TECHNICIAN, and three year TECHNOLOGY help prepare the students for their future careers.

CHEMCIAL ENGINEERING TECHNICIAN

This program places emphasis on laboratory procedures and the operation of modern chemical apparatus. The theoretical background provided in the lecture is complemented by procedurs in the laboratory. Mathematical and communication skills are developed throughout the program.

CHEMICAL ENGINEERING TECHNOLOGY

The chemical engineering technologist is concerned with the processed, equipment and techniques in the fields of industry, research and development, and production. Government interest in research, the importance of chemistry in most manufacturing processes, and the rapid expansion of Canadian industry helps to ensure a viable employment market for the technologist.

In both programs versatility is important. Graduates do not leave with a specialized background in one narrow field, but rather acquire a broad based expertise which allows them to enter a large variety of industries.

CAREERS

Leg of frog — eye of newt — blue vitreol; the days of the alchemist have long past, but for some the attraction of chemistry is just as strong. The practice of chemistry has changed, but the challenge facing those with sound chemical knowledgecontinues to increase.

New methods of manufacturing — the recovery of materials and resources — the detection of minute quatities of substances, all place demands upon the chemical technician and technologist. Niagara College chemistry graduates fulfill many roles in industry; for example: research assistant, lab analyst, lab technician, pilot/plant operator, process operator, technical sales and service. Employment opportunities exist in food, glass, rubber, building products, dye, oil, lubricant, heavy chemical fuel, fertilizer, plant, plant, plastics and metals industries, and in government agencies.

New course important to foreign competition

Industry is changing and Niagara College has introduced a new successful program to be in the forefront of these changes. The School of Applied Science and Technology announces the introduction of the program entitled Industrial Engineering Technician — Quality Control.

The program offers the student an excellent working knowledge of Quality Assurance which covers the different aspects associated with a product, from the design, through manufacture to field service.

The program gives the student a sound basic knowledge of mathematics and science and in addition focuses on the specific needs of Quality Assurance as required by various industries.

Quality assurance is a new and very important philosophy in manufacturing for Canadian companies in meeting foreign competition.

The program incorporates a work term which allows the student to obtain practical on-the-job training; and, in addition, allows the student to assist in the introduction of a quality manual and program in the plant.

Some of the companies that assited in the student work term were:

Hayes Dana Ltd.
John Deere Co.
General Motors Corp.
Horton Abrasives
Fleet Aircraft
Moyer Diebel
in addition to many others.

See your creations rise from the ground

Ontario's building industry has gained an international reputation for excellence by producing high-quality products at competitive prices. Right now, it is one of the largest and most important industries in the province.

In recent years the building industry in Ontario provided over 300,000 jobs in 80,000 firms, employing three times as many people as the automotive sector. Included among the thousands of people whose skills and experience contribute to the building industry are architects, engineers, contractors, developers, manufacturers, wholesalers and retailers — as well as those who work as construction, architectural and civil technologists.

The construction industry is an exciting industry and offers a rewarding career. The young person choosing a career in the construction field becomes a part of a team that is constantly meeting new technological changes, unusual circumstances and daily challenges. Any member in this team will have the satisfaction of seeing the lasting evidence of one's contribution to society, whether it is a new highrise, a new large industrial complex, a new factory, school, hospital, shopping mall, highway, bridge, or power project. As a team member one will develop that feeling of confidence that comes with the knowledge that one's skills will be more and more in demand as the country's construction needs grow.

HAGAR THE ROBOT

The Construction Engineering Program of Niagara College presents a unique opportunity for you to continue your education in a variety of fields related to construction. Since the program was established in 1969, graduates of this three-year program have found positions as quantity surveyors, construction estimators, draftsmen in architectural and consulting engineering offices, purchasers, field surveyors and with experience on the job, moved into positions as field and office supervisors.

To prepare young men and women for the many positions available in the wide-ranging construction industry, Niagara College's Construction Engineering Technology Program offers three years of diversified courses.

During the first year, the students learn the techniques necessary for the preparation of drawing as they apply to the architectural and structural field, together with building methods and materials. The courses of the second year emphasize principles fundamental to design in concrete, structural steel and lumber. Mechanical systems are studied to understand their integration into buildings. The third year emphasizes construction practices, contracts, planning and scheduling, administrative procedures and other elements of project management. "On-the-job" training during the last term will help the student make a smooth transition to the working world.

There are countless opportunities in construction. Many different jobs and many chances to get ahead are waiting for the persons eager enough to take personal responsibility for a job, and ready to do just a little bit extra to make sure the job is done right. Each job has its own advantages and rewards for the person who is trained to fill it. Our graduates have proven their abilities, efforts, initiative and dedication. Therefore, employment opportunities have always been available to place all graduates.

The importance of construction is evident almost everywhere. You can be part of Canada's industry. CONSTRUCTION — the industry that depends on your skills.

Offers variety of occupations

Mechanical Engineering Technology is a three-year (six semester) full-time program.

Ontario Secondary School Graduation Diploma or equivalent, including senior level Mathematics and Physics. Preference will be given to applicants with a minimum of 60 per cent at the advanced level or 70 per cent at the general level for these subjects.

THE CAREER

The graduate is prepared for immediate entry into a wide variety of industrial occuaptions which include assisting project and plant engineers with manufacturing equipment design; maintenance of equipment and systems of the type used in automated systems and robotics; assisting manufacturing engineers in co-ordinating employees and computer integrated manufacturing processes; assisting research and development engineers in the planning, design, set-up and conduct of experimental tests on mechanical components and systems.

Special features of the program include:

Computer Integration — all first year students are issued a microcomputer at a nominal cost (less than $100.00 a term) to do assigned technical application problems.

Courses in Computer Aided Design; Computer Aided Manufacturing; Robotics

Technology

Niagara has a 5-terminal CAD/CAM control system

Mechanical Engineering Technician

Draftsmen integral to industry

Before attempting to explain or describe the objective of the Mechanical Engineering Technician (Drafting Design) Program, we would first like to define the end product.

Boardmen (draftsmen, if you will) can be found in supervisory functions; owning their own shops; free-lancing; job shopping; or managing construction projects. They can also be found as inventors, arbitrators, technical salesmen or purchasing agents; even as specifications or contract writers. In other words, many people who started as draftsmen do not always remain just "boardmen."

Engineers have a "sheepskin;" craftsmen have a union. Draftsmen have the knowledge that without them, the gap between engineers and craftsmen might never be closed.

New innovations to the profession have come along to enhance this process, such as CAD (Computer-Aided Drafting). The college has purchased a five-terminal Computer-Assisted Drafting and Design/Numerical Control system (CAD/CAM) from Applicon Canada. Integrated with the five-color work stations is a CALCOMP 960E plotter ("E" size) and a hard-copy printer. The system permits training in 2D, 3D wireframe and solid modelling, using an extremely user-friendly, menu-driven system.

This two-year program combines drafting know-how with CAD to prepare you for Industry, using the College's new APPLICON Computer-Assisted Drafting (CAD) System.

So you can see we need people who are interested in becoming professional to help close this gap. The following is a description of the program.

Many of the troubles of the world today are caused by the fact that people do not understand one another. This is also true in engineering. The efficient transfer of ideas from designer to production can be accomplished by graphic communications via the drafting board. A well executed drawing provides a clear and concise presentation of technical information. It is the objective of this program to prepare the student both academically and graphically to properly cope with the above. He is exposed to the various drafting disciplines to produce detailed and assembly working drawings of machinery and component parts, piping drawings, materials handling equipment, structural members, tool design and basic electrical drawings.

To complement the curriculum with certain aspects of business and the writing of material specifications, technical reports and procedures concerning costing and purchases are presented in this program.

Some of the jobs held by our graduating students are as follows: Junior and Intermediate Draftsmen, Lead Hand in the Engineering Department, Technical Sales, Co-ordinator of Engineering Services, Drafting Room Supervisor, Production Scheduling, Intermediate Tool Designer, Estimator in Proposal Department, and some furthered their studies.

Technology

Special surveying broadens field

Surveying is the science of accurately measuring the relative positions of points or objects on or near the surface of the earth and accurately showing them on a map. This type of work is required for many reasons, such as locating the positions of: property boundary lines and national frontiers; underground tunnels; structures, such as bridges, dams, and buildings; public services, such as roads, sewers and watermains. Surverying is required wherever local or national development takes place.

Because of the broad applications of surveying, many surveying specialties have developed since this science originated more than 3000 years ago. Geodetic Surveys deal with large areas of the earth's surface. Plane Surveys deal with relatively small areas of the earth's surface where the effects of earth curvature are negligible. The following are examples of surveys within these two major divisions: cadastral or boundary surveys; construction surveys; hydrographic surveys concerning bodies of water; topographic surveys to show the natural and artificial features of the land; aerial surveys using aerial photographs and the science of photogrammetry to map large or inaccessible areas.

Survey work is done throughout the year and consists of field observations, computations, and mapping. The prospective survey technician should be prepared to work inside as well as outside in any type of weather; have no physical disabilities; have a tendency to be methodical and exact in applied mathematics; possess or be prepared to develop the ability to present the results of the work in a neat manner; be capable of following and giving instruction; and have good powers of observation. Accuracy and neatness are required of the survey technician in all phases of the work. Persons, male or female, who have or are prepared to develop these qualities may have a rewarding career in some branch of surveying.

Certification

The program prepares graduates for para-professional field and office positions in surveying and municipal engineering. The curriculum is designed so that graduates, after two years of related work experience, are eligible for certification as Survey Technicians with the Association of Certified Survey Technicians and Technologists of Ontario (A.C.S.T.T.O.) and as Engineering Technicians with the Ontario Association of Certified Engineering Technicians and Technologists (O.A.C.E.T.T.).

Specialization in practical survey work starts in the first term and continues throughout the four terms. Ample opportunity exists for students to become thoroughly familiar with all the survey equipment. The survey drafting and survey computations are tied closely to the field assignments. The mathematics courses are specially designed for survey technicians. Other courses provide engineering technology fundamentals while courses such as Plane Surveying, Survey Drafting, Survey Computations, Astronomical Surveys, and Legal Surveys provide survey technology principals.

This program has an excellent placement record. Graduates are employed by land surveyors; consulting engineers; utility companies; contractors; Municipal, Regional, and Provincial Government departments. Operations such as: field crew work on boundary locations and engineering surveys; calculations for survey work, construction estimates, plan preparation, and assisting in municipal services design; title searching in land registration offices; the preparation of land boundary plans, topographical plans, and construction project drawings; and surveying and drafting equipment sales, are examples of the type of work which survey technicians could perform. With appropriate work experience many go on to fill supervisory positions.

The minimum admission requirement is the Ontario Secondary School Graduation Diploma or equivalent. This diploma should contain Year 4 Mathematics. Credits in drafting are desirable, but not essential. Persons under 19 years of age may qualify for admission as mature students under standard College procedures. There is provision to exempt students from courses for which they already have obtained equivalent credit at some other institution. These exemptions will be judged by College personnel.

Power Engineering Technician

The Power Engineering Technician is trained to operate industrial and commerical steam boilers, refrigeration systems, air and gas compressors, and related equipment.

Niagara College offers training which will provide:

-academic and practical training in 4th class and 3rd class Stationary Engineering to meet the requirements of the various regulatory bodies.

-in-College experiential training to meet the requirements of the Operating Engineer's Act.

-training using state-of-the-art computer-based operator workstations which bring to the operator's screen, upon demand, the overall and detailed operating and control parameters of the plant.

-training in Building Management to further the career opportunities of graduates in day-to-day management to the whole of multi-building complexes, in addition to their statutory duties in operation of heating plants. This will also provide building complex owners with multi-functional staff able to manage the whole plant operation.

-extended practical training to include the third class certification requirements of six months in a Second class registered plant.

An individual considering a career in Power Engineering should be interested in mechanical equipment, electric and electronic control instrumentation.

The course of studies requires a basic background in physics, chemistry, mathematics, and communication skills. The individual should be prepared to work shift work, either 8-hour or 12-hour shifts.

Cost efficiency

Because of continuously increasing costs in utlilites, especially fuel costs, it is important that plants be operated in the most cost-efficient way. Technology has provided computer based control hardware with the potential for complex operating strategies. Personnel must be trained to use this technology. Without continued improvements in operating efficency, Niagara area business and industry will be less competitve.

A recent development in Southern Ontario has been the proliferation of large multi-building complexes. The manager must have business training while statutory requirements mean that a stationary engineer is also needed.

Building complexes include: hospitals, convention centres, colleges, arenas and stadiums, schools, swimming pools, universities, government buildings, high-rise office buildings, industrial malls, shopping malls, high-rise residential complexes and regional shopping centres.

Equipment would include: steam boilers, gas and air compressors, auxilliary generators, heating and air conditioning plant, ice making machinery, swimming pool equipment, environmental control and energy recovery systems, elevator, escalators, garbage compactors, pumping systems, fire fighting systems and extinguishers, water systems and filter, distilled water columns, sterilizers, and incinerators.

There are statutory requirements for staffing many heating plants in building complexes with qualified Stationary Engineers. There are, however, other plant management functions to fill for which the Stationary Engineer is not qualified, indeed, until recently the Stationary Engineer was prohibited from filling these functions. This restriction has now been removed.

Applicants must have an Ontario Secondary School Graduation Diploma, or equivalent.

Arc Welding — poetry in motion

For Skill Development

Metal industries offer high employment rate

The Regional Municipality of Niagara portrays a region heavily dominated by metal manufacturing industries.

These industries employ large numbers of skilled industrial trades people, many of whom are graduates of Niagara College's Apprenticeship or Skills Trade Training Programs.

There are a number of local manufacturing industries that occupy a special position in Ontario's economic order as a result of geographic location, capital concentration and a well trained and experienced labour force. Each have strategic technological and skill requirements.

Niagara College's Resource Centre for Skills Development at the Welland Vale Campus in St. Catharines, is serving that special training need and has established a modern, well equipped training facility to instruct new entrants and currently employed workers in contemporary metal working and manufacturing technologies through its many programs that are offered on a full time basis during the day or through continuing education as part-time evening classes.

Metal working and manufacturing industries employ more people in the Niagara Region than any other industry, and Niagara College offers an array of skill training programs to meet that demand in:

Apprenticeship Training, General Machinist Trade, Tool and Die Maker (Toolmaking), Computer Numerical Control Machining (C.N.S. Machining), Industrial Maintenance Mechanic, Welding Engineering Technician, Welding Fitter, Welding Refresher

The skills development programs are designed as individual learning and continuous intake courses. Individual learning and continuous intake are the major characteristics of operation for most skills training programs. This means that these programs, more than ever before, are student oriented.

The student is able to start the program of skill develpment when it is most meaningful to the student and once skill development has begun, every effort is made to accommodate a rate suited to the individual.

1200 hours

All skills training programs are designed as a 40 week, 1200 hour course.

Program Content includes: Communication Skills, Mathematics, Blueprint Reading, Drafting, Skill Trades Theory, Hands-on Skills Trade Training.

In addition to traditional programs, the Resource Centre for Skills Development works cooperatively with the industrial community in the development of a wide variety of training courses. In some cases, classes are conducted on Company premises by the College's instructional staff. At other times, classes are conducted at one of our College Campuses. Often both locations are required in order to complete the program of theoretical and applied instruction. Niagara College has operated eleven joint industrial training programs in the past two years, involving on-campus and on-site industrial training.

Student Services To serve YOU

Making transition easier helping applicants cope

By BETTE FERGUSON
Director, Student Services

Making the transition from high school to college is sometimes difficult for people. Student Services is dedicated to assisting students bridge the gap with an array of coping strategies.

We provide a wide variety of support services to students at the college. The following are some of these: counselling, health, placement, athletics and recreation, and student transportation.

COUNSELLING SERVICES

Counsellors can provide assistance in many ways. In addition to confidential counselling of a personal, social or vocational nature, they can help with adjustment to college life, effective problem-solving, self-assessment, stress management, and study skills.

A three-day orientation to the college is offered to all freshmen college students prior to start of classes in September. The counselling department also organizes a peer tutoring service for students who are experiencing academic difficulties and need some extra help.

The counselling department is also responsible for the Career and Study Skills Library which is located in the Learning Resource Centre.

HEALTH SERVICES

There is a registered nurse on campus throughout the day to assist with confidential health counselling and any special health problems. Medical clinics with a physician in attendance are also available three mornings per week.

PLACEMENT SERVICES

To assist graduating students to compete successfully for employment and make the transition from college to the workplace, we have two full-time placement counsellors. The counsellors have developed a broad spectrum of employer contacts which ranges across, and indeed extends outside, the Niagara Region. This range of contacts enhances the number of job opportunities you may explore on graduation. The counsellors are also ready to assist graduating students acquire the career development, resume writing and job-search skills so necessary in today's competitive job market.

Our 1985 graduates enjoyed a placement rate of more than 80 per cent.

STUDENT TRANSPORTATION SERVICES

If you do not own a car, you may wish to take advantage of our student transportation system which provides a busing service to and from the Welland Campus for selected areas of the peninsula.

ATHLETIC AND RECREATION SERVICES

Niagara College is a member of the Ontario Colleges Athletic Association and participates in six of its activities. These include intercollegiate golf, tennis — men and women; badminton — men and women; curling — men and women, mixed; women's basketball and men's basketball. We also have a strong intercollegiate men's hockey team which participates with other colleges and universities from New York and Pennsylvania in the International Colleges Hockey League.

Niagara College is also a member of the Canadian Colleges Athletic Association and is eligible to participate in the Canadian Championships in men's basketball, women's basketball and badminton if the teams and/or individuals qualify.

We sincerely hope that you will take advantage of the facilities and activities offered at the college. Come on over, meet new friends and "get involved." Life is a lot more fun that way.

Remember. "*You do not have anything if you do not have your health.*"

*"*Maybe it's time you jumped into something more demanding than a car pool.*"

*"*Let's run around together!*"

*"*Time for fitness is time on your side!*"

*"*If you think fitness is a distant goal, consider this: You can walk all the way!*"

The Athletic department would take a great deal of pleasure in welcoming you to Niagara College. We would hope that you will take advantage of the services and facilities offered to you by our department.

Our facilities include a large gymnasium suitable for basketball, volleyball (two courts), badminton (six courts), and room for a host of other activities should you wish to participate. Close to the gymnasium we have a fitness centre with much of the latest weight and cardiovascular equipment. Outdoors we have three all-weather tennis courts, two football/soccer playing fields and one softball diamond. We also rent pools and gymnasiums throughout the peninsula to service our satellite campuses.

Students may choose many types and forms of activity to take part in during the college year. Classes utilize approximately 60 per cent of gymnasium time which leaves 40 per cent of the time for intramurals and free play. During this free time, students are welcome to participate in the activity of their choice.

Intramural games and tournaments are held each Tuesday and Thursday from noon until 2 p.m. when 90 per cent of our students are given a double spare over lunch to participate in athletic endeavors and other club activities as they desire. Sport activities offered during these intramural times are golf, tennis, touch football, softball, badminton, men's, women's and mixed volleyball, ice hockey, and basketball, and floor hockey.

CO-OP

Did you know that Co-operative Education was first introduced in Canada 28 years ago at the University of Waterloo? Since then, it has continued to grow and prosper and now envelops 43 post-secondary institutions in Canada.

Niagara College became involved in 1977 with the introduction of the co-op Legal Assistant program and has continued to expand to nine programs this year, with the introduction of: Business Administration — Industrial Management, Marketing Management and Personnel Management.

Existing co-op programs include retail management, tourism and office administration. Plans are afoot to add the two-year Accounting program to the growing list in 1986/87.

The Federal Government is committed to the philosophy of co-operative education and hires hundreds of co-op students annually from across Canada. As a further show of support, they have introduced a funding program to help offset the start-up costs and to encourage the expansion of co-operative education. Niagara College submitted a proposal last year and received a grant of $86,358 to be distributed over a four-year period. Another proposal will be submitted this year. Co-op education at Niagara is working! Its success may be measured in numerous ways —

— by the enthusiasm and commitment of students returning from the first work term

— by the support of co-op employers who return year after year

— by the 100 per cent placement of students upon graduation

There are other rewards for co-op students as well. It could provide the opportunity to live away from home while they earn money, experience another environment and complete their co-op work term, all at the same time. Co-op placements have taken our students from British Columbia to Newfoundland. Some Tourism students have spent time in London, England, and some have represented Canada at Disney World in Florida. Several Secretarial students found themselves working for the Federal Government within such unique areas as Canada's Communications Centre, Ottawa — where space shuttle's "Canada Arm" is housed.

Interest in co-op expressed by students and staff indicates that co-op at Niagara will continue to grow.

Should you decide to enter a program at Niagara College, we wish you every success and hope that Student Services can help you to make your time at college successful, productive and happy.

College Knights into many sports

LRCs offer

Array of material

The Niagara College Learning Resource Centres (LRCs) offer students a wide array of materials and services. There are several LRCs in the Niagara system. Each library reflects the courses taught on that campus. The main library is at Welland. It supports courses in Business, Applied Arts and Technology. Two branch libraries are located in St. Catharines. The nursing students are served by the LRC in the Mack School of Nursing. The vocational and technical students are served by the LRC in the Centre for Skills Development. In addition, there are three satellite locations in the Rainbow Hotel Centre, Theatre Centre, and Horticultural division.

The LRCs offer books, periodicals, government reports, and audiovisual materials such as films, videos and slide sets. Many students appreciate the option of watching a documentary video of a means of absorbing difficult skills or concepts. In terms of physical space there are areas for personal quiet study, quiet group discussions, and equipment operation of many types (projectors, tape recorders, VCR and television monitors).

Information on how to use the LRCs effectively is provided during orientations, English classes and by special request. In cases where students have special assignments due, the instructors and librarians arrange topical class seminars. These classes highlight the process of finding information and offer students hands-on experience with special resources. One resource that students find useful is the collection of periodical indexes. These indexes provide access to thousands of articles on hundreds of topics. Topics range from general to highly technical — from planning a trip to the Orient to behavioural psychology or robotics in manufacturing. If articles are not located in the Niagara College LRCs, an interlibrary loan service is available. This service brings the materials from other public, college and university libraries.

In all the LRCs a main feature is reference assistance. The students who get the most from the resources are the ones who get to know the library staff. The LRCs are large enough to be helpful and small enough to be friendly. All questions are welcomed as a continuing means to evaluate and develop the resources and services.

Continuing Education

Niagara College's Continuing Education Services offers you an opportunity to enrich your learning experiences at Niagara College.

You can take courses in subjects related to your program or complementary to it. You can learn a new skill; pursue an interest; learn more about computer applications; or enrich your leisure time. A list of courses offered is available in H-21.

Electronic Office

A wide variety of microcomputer applications courses and dedicated word processing training related to the electronic office, which includes:

Lotus 1-2-3
Visicalc
Data Base Management
Word Processing — dedicated — on WANG word processors
— software on IBM Personal Computers
How to Use a Microcomputer
BASIC Programming

Seminars

Audiometric Testing Workshop
Writing Business Proposals That Work
Writing Effective Business Letters and Memos
Time Management
Stepping into a Professional Selling Career
International Marketing (3-day seminar)
Pre-Retirement Seminar

Courses on

Computer Aided Drafting Techniques — An Introduction
Correspondence and Report Writing
Diesel Mechanics
Just-In-Time-Inventory — An Introduction
Power Plant Boilers and Auxiliaries (4th Class Stationary Engineering)
Programmable Logic Controllers — Introduction
Computer Art and Music

Credit Courses

Of Interest

Arts
Bartending for Professionals
Business Studies
CPR Cardiopulmonary Resuscitation
Canal Cruise
Computer Programs
Cooking
Crafts
Exercise
Floral Design
French Language Studies
Horticulture
Motorcycle Safety Training
Nursing and Health Related Studies
Recreation
Sewing
Sports
Understanding The Law
Welding
Word Processing

Lisa, Monica and Gina strut high fashion — their designs

Meet the ACHIEVERS...

MARI LITTLE

FASHION ARTS GRADUATE, 1977

Asst. Designer, Molyclaire, Montreal; Supervising Mgr., Suzy Shier, Hamilton & Fashion Instructor, Mohawk.

ELAINE ALGUIRE

FASHION ARTS GRADUATE, 1981

Advertising Mgr., The Right House Department Stores

BILL McARTHUR

FASHION ARTS GRADUATE, 1973

Store Mgr., Asher's, Harbour Center, Vancouver

HEATHER LANE

FASHION ARTS GRADUATE, 1981

Honour Graduate, Paris Fashion Institute, France; Costume Dept. Shaw Festival & Fashion Instructor, Mohawk College

LAINE FERGUSON

FASHION ARTS GRADUATE, 1978

Divisional Marketing Mgr., Big Steel, Toronto

LAURIE SYER

FASHION ARTS GRADUATE, 1980

Fashion Buyer, Robinson,s Dept. Stores, Hamilton

Join the ACHIEVERS!

PASTE YOUR PHOTO HERE

FASHION ARTS GRADUATE, 1987

THE GRADUATES SPEAK...

"As a Fashion Arts grad I was employed at a higher starting salary with an expanding store chain. Today I have a l een sense of accomplishment and self-awareness." MARI LITTLE

"After attending the Fashion Arts Program at Niagara College, I gained the background necessary to step into a management position in Advertising without any other previous experience in the field." ELAINE ALGUIRE

"Fashion Arts at Niagara gave me the opportunity to develop a personal style and establish a solid base for career-building." HEATHER LANE.

"I gained self-confidence and a sense of responsibility during the two-year Fashion Arts Program, which are necessary to cope in the fast-paced world of fashion." LAURIE SYER.

Fashion Arts Program